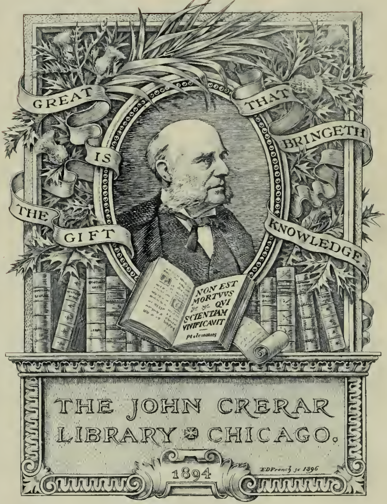
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VOLUME IV NUMBER III

The Georgia School of Technology

Mechanical Engineering, Electrical Engineering, Civil
Engineering, Textile Engineering, Mining
Engineering, Engineering Chemistry,
Chemistry

1906-1907

Published Quarterly by the
Georgia School of Technology
Office at the School
Atlanta, Ga., April, 1907

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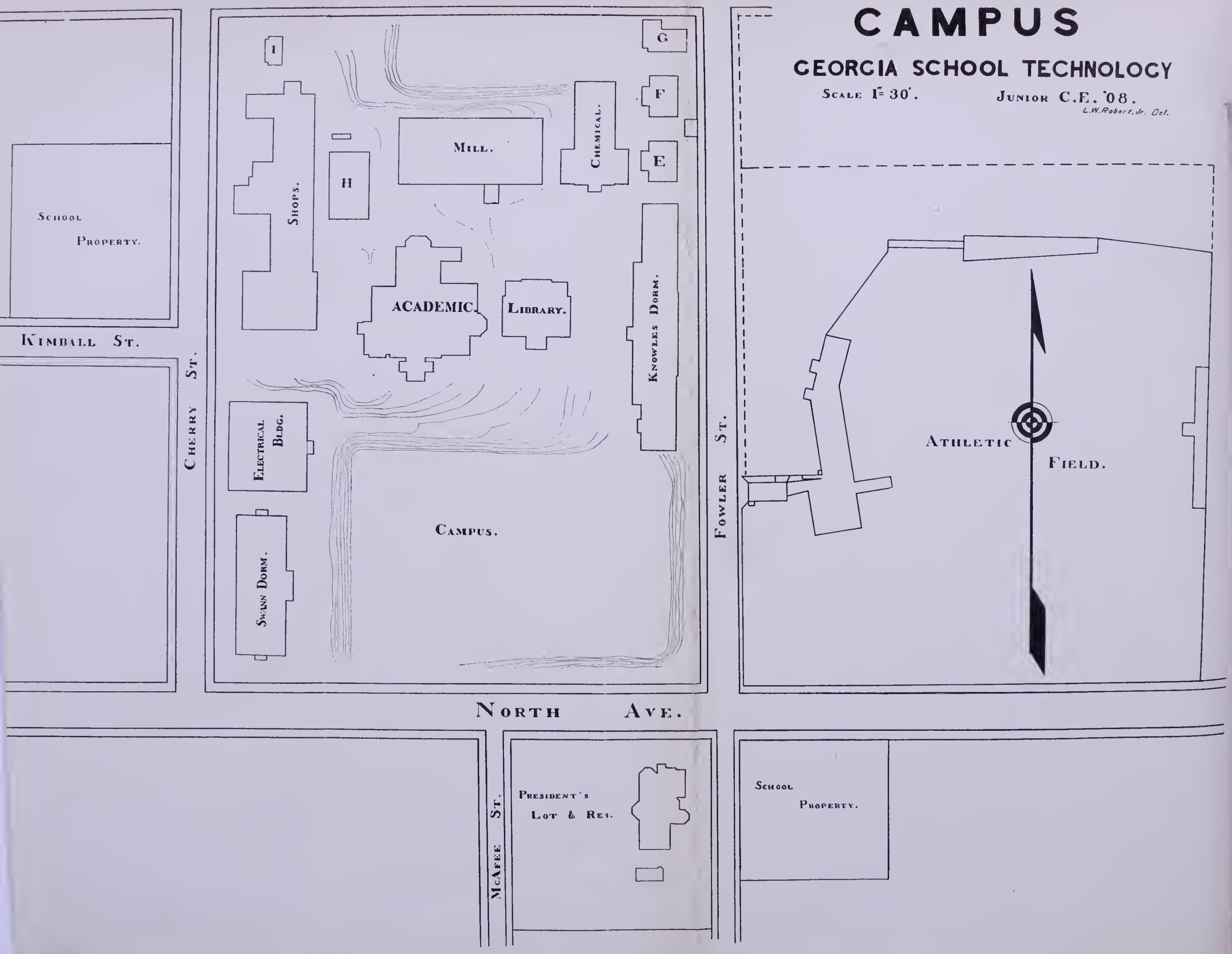
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GEORCIA SCHOOL TECHNOLOGY
Scale 1"=30'.
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L.W.Robert,Jr. Del.
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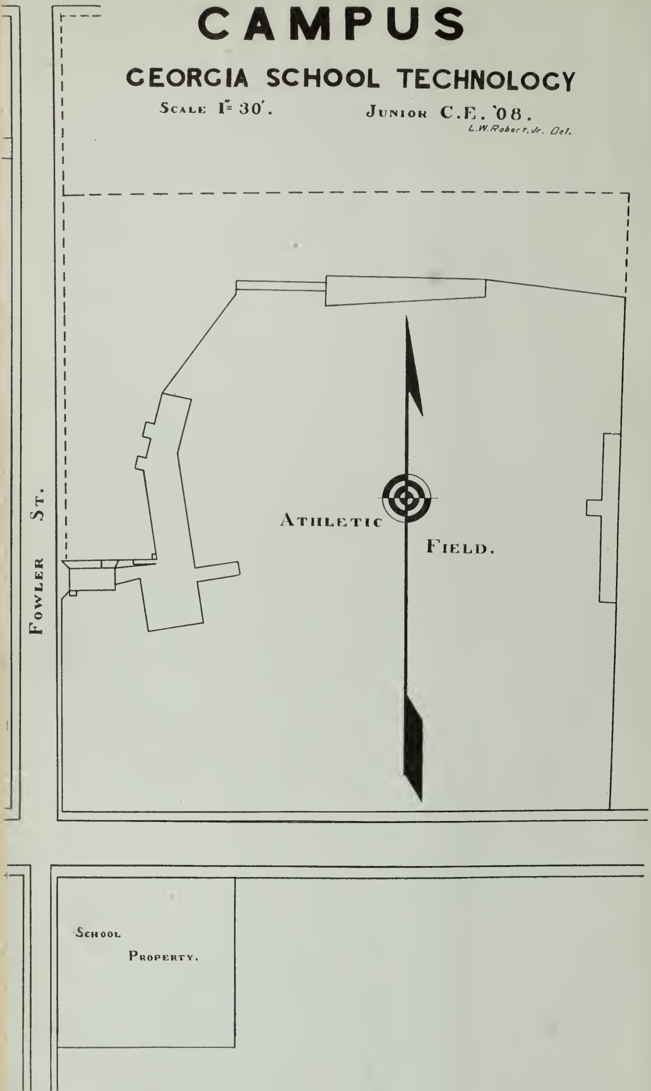
Shops.
Mill.
Chemical.
Academic.
Library.
Knowles Dorm.
Electrical Bldg.
Swann Dorm.
Campus.
School Property.
Kimball St.
Cherry St.
Fowler St.
Athletic Field.
North Ave.
McAfee St.
President's Lot & Res.
School Property.

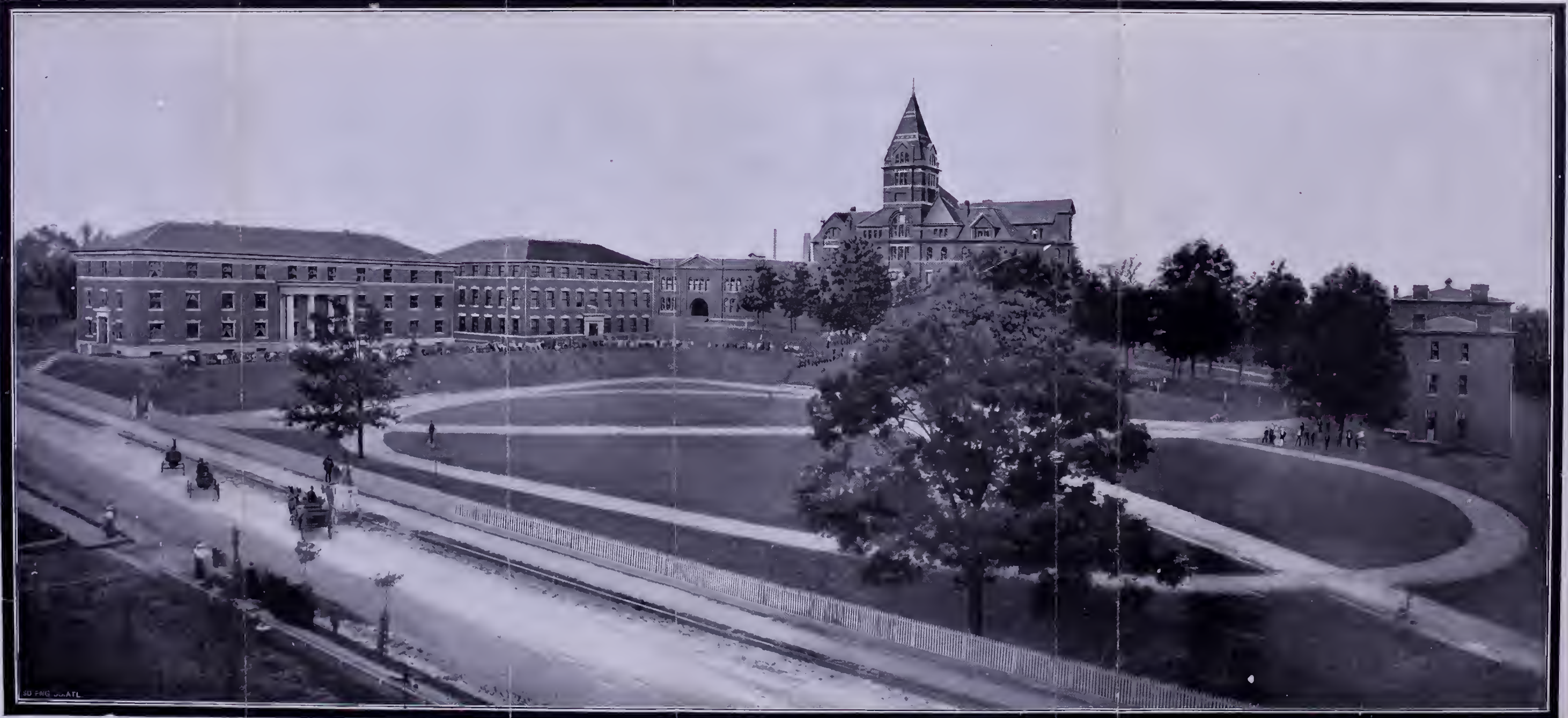
CAMPUS

GEORGIA SCHOOL TECHNOLOGY

SCALE 1" = 30'. JUNIOR C.E. '08.

L.W. Robert, Jr. Del.





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MECHANICAL ENGINEERING, ELECTRICAL ENGINEERING, CIVIL ENGINEERING, TEXTILE ENGINEERING, MINING ENGINEERING, ENGINEERING CHEMISTRY AND CHEMISTRY.

CAMPUS AND BUILDINGS, GEORGIA SCHOOL OF TECHNOLOGY, ATLANTA, GA.

ıtory of Chemistry, Carnegie Library and two Dormitories not visible.) Knowles Dormitory

RING CHEMISTRY AND CHEMISTRY.

ANNUAL ANNOUNCEMENT

OF THE

GEORGIA SCHOOL OF TECHNOLOGY

ORGANIZED 1888

A SCHOOL OF MECHANICAL, ELECTRICAL, CIVIL, TEXTILE, MINING ENGINEERING, ENGINEERING CHEMISTRY, AND CHEMISTRY
A DEPARTMENT OF THE UNIVERSITY OF GEORGIA.

ATLANTA, GA.

1906-1907

¶

Atlanta, Ga.:
FOOTE & DAVIES CO.
1907

TABULAR ALMANAC.

1906

JULY

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1907

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1908

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CALENDAR 1907-1908.

FIRST TERM.

Begins September 25, 1907; ends February 8, 1908.

Christmas Vacation December 21, 1907-January 2, 1908.

SECOND TERM.

Begins February 10, 1908; ends June 18, 1908.

Commencement Day, Thursday, June 18, 1908.

By order of the Board of Trustees, the only holidays to be observed are Thanksgiving Day and Memorial Day (April 26th).

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Miss Laura Hammond	Librarian.

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F. Field, A.M.	Adjunct Professor.
E. C. Colpitts, Ph.D.	Adjunct Professor.
W. V. Skiles, A.B.	Adjunct Professor.
J. B. Smith, M.A.	Adjunct Professor.

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G. H. Boggs, B.S., Ph.D.	Junior Professor.

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ENGLISH.

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William Gilmer Perry, A.M.	Junior Professor.
Elbert W. G. Boogher, M.A	Adjunct Professor.
J. F. Johnston, A.B.	Adjunct Professor.
R. W. McCulloch, A.B.	Adjunct Professor.

FACULTY--Continued.

ELECTRICAL ENGINEERING.

R. W. Hargrave, B.S., M.E.	Professor.
N. E. Funk, E.E.	Instructor.

CIVIL ENGINEERING.

T. P. Branch, B.E.	Professor.
W. A. Jackson, B.S. in C.E.	Adjunct Professor.

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J. N. G. Nesbit, B.S., E.E.	Professor.
N. E. Funk, E.E.	Instructor.

PHYSICS.

J. B. Edwards, B.S., E. and M.E.	Professor.
C. J. Payne, A.B.	Adjunct Professor.

DRAWING.

J. S. Coon, M.E.	Professor.
R. H. Lowndes, B.S., in M.E.	Junior Professor.
D. E. Lowell, B.S., in M.E.,	Adjunct Professor

PHYSICAL CULTURE.

W. A. Jackson, Jr., M.D.	Director.

MODERN LANGUAGES.

J. B. Crenshaw, A.M., Ph.D.	Professor.

GEOLOGY AND MINERALOGY.

S. W. McCallie, B.Ph.	Professor.

TEXTILE ENGINEERING.

W. N. Randle (Grad. Philadelphia Textile School)	Director.

FACULTY--Continued.

THE A. FRENCH TEXTILE SCHOOL.

E. W. Camp, B.S., in T.E., Assistant Director, and in charge Carding and Spinning Department.

H. Hebden, in charge Warp Preparation, Weaving and Finishing Department.

C. A. Jones, B.S., in T.E., in charge Bleaching and Dyeing Departments, and Assistant in Weaving.

W. N. Bagwell, B.S., in T.E., Assistant in Carding, Spinning and Designing.

SHOPS.

J. S. Coon, M.E.	Superintendent.
E. B. Martindale,	General Foreman, Foreman Machine Shop.
Horace A. Thompson	Foreman, Smith Shop.
John H. Henika	Foreman, Wood Shop.
Wm. Van Houten	Foreman, Foundry.
H. H. Norman	Instructor, Wood Shop.
W. F. Griffin	Instructor, Machine Shop.
L. P. Milner	Instructor, Wood Shop.

O. O. Boyle	Secretary to President.
Miss Ella Pogue	Stenographer to President.
A. G. Allen	Steward of the Dining Hall.
C. E. Bostwick	Assistant in Gymnasium.
J. L. Neil	College Y. M. C. A. Secretary.

STANDING COMMITTEES OF THE FACULTY.

The President is *ex-officio* a member of all standing committees.

Accredited Schools.—Professors Branch, Geckeler and Black.

Athletics.—Professors Randle, Nesbit and Dr. Jackson.

Buildings and Grounds.—Professors Coon and Lowndes.

Courses of Study.—Professors Emerson, Branch and Geckeler.

Deficiencies.—Professors Wallace, Boggs and Edwards.

Honor System.—Professors Emerson, Wallace and Crenshaw.

Library.—Professors Boggs, Perry and Hargrave.

RESIDENCES OF FACULTY.

W. N. Bagwell	184 Plum Street.
H. V. Black	79 W. North Avenue.
G. H. Boggs	373 Spring Street.
E. W. G. Boogher	Dormitory.
T. P. Branch	129 Juniper Street.
E. W. Camp	651 S. Pryor Street.
E. C. Colpitts	152 W. Baker Street.
J. S. Coon	26 Kimball Street.
J. B. Crenshaw	384 Peachtree Street.
J. B. Edwards	32 Prospect Place.
W. H. Emerson	175 Ashby Street.
F. Field	341 Frazier Street.
N. E. Funk	15 W. Third Street.
O. T. Geckeler	Oakland City.
W. F. Griffin	56 Cherry Street.
Miss Laura Hammond	724 Piedmont Avenue.
R. W. Hargrave	152 W. Baker Street.
Harry Hebden	405 Spring Street.
J. H. Henika	56 E. Ellis Street.
W. A. Jackson	184 Capitol Avenue.
W. A. Jackson, Jr.	66 Forrest Avenue.
J. F. Johnston	78 W. Peachtree Place.
C. A. Jones	Marietta, Ga.
D. E. Lowell	47 W. North Avenue.
R. H. Lowndes	315 E. Linden Street.
E. B. Martindale	50 Cherry Street.
K. G. Matheson	142 W. North Avenue.
S. W. McCallie	171 Angier Avenue.
R. W. McCulloch	184 Capitol Avenue.
L. P. Milner	Dormitory.
A. B. Morton	373 Spring Street.
J. L. Neil	Dormitory.
J. N. G. Nesbit	15 W. Third Street.

H. H. Norman	312 W. Fourth Street.
C. J. Payne	53 W. Linden Street.
W. G. Perry	338 W. Peachtree Street.
W. N. Randle	246 Juniper Street.
W. V. Skiles	79 W. North Avenue.
J. B. Smith	387 Spring Street.
H. A. Thompson	299 Crew Street.
Wm. VanHouten	211 W. Pine Street.
S. S. Wallace	Swann Dormitory.

STUDENTS.

Senior Class.

Angas, R. M.	Florida.
Apple, J. J.	Chatham.
Brown, B. S.	Pulaski.
Corley, C.	Bartow.
Corse, H. M.	Florida.
Cowan, W. H.	Newton.
Davies, F. C.	Fulton.
DuPre, W E.	Fulton.
Emerson, L. A.	South Carolina.
Epstein, M.	Fulton.
Haines, G.	Chatham.
Hartridge, E. M.	Chatham.
Hodgson, G. O.	Florida.
Holtzclaw, J. G.	Houston.
Jackson, L. R.	Monroe.
Johnson, W. H.	Chattahoochee.
Kenner, E. R.	Murray.
Knight, A. C.	Bartow.
Leech, H. H.	Fulton.
Longino, B. T.	Campbell.
Longino, O. H.	Fulton.
Mann, L. B.	Telfair.
Marchmont, G. T.	Fulton.
Murray, E. F.	Muscogee.
McLarty, J. W.	Carroll.
Pierce, E. L.	Florida.
Pittard, C. W.	Clarke.
Raht, T. E.	Fulton.
Riley, R. A.	Fulton.
Sims, J. E.	DeKalb.
Sparks, A. H.	Washington.
Stout, G. M.	Fulton.
Thornton, C. N.	Fulton.
Trapnell, J. M.	Bulloch.
Willatowski, A. F.	Fulton.
Wood, W. E.	South Carolina.

Junior Class.

Adair, M. C.	Oconee.
Adamson, C.	Carroll.
Baldwin, J. R.	Floyd.
Burke, J. G.	Fulton.
Chapman, J. G.	Bibb.
Cheney, G. W. H.	Floyd.
Chestney, B. R.	Bibb.
Corlett, E. H. Jr.	Fulton.
Crumbley, J. J.	Quitman.
Cundell, A. B.	West Virginia.
Davenport, J. E.	Virginia.
Downing, H. C.	Fulton.
Emerson, C. L.	Fulton.
Evans, H. B.	Hall.
Ford, I. S.	Berrien.
Fosterling, C. W.	Chatham
Gibbs, G. W. Jr.	Fulton.
Goodier, L. E. Jr.	Fulton.
Hardin, F. H.	Fulton.
Hargrove, S. J.	Dodge.
Henderson, C. H.	Houston.
Hendrie, G. A.	Fulton.
Herndon, J.	Elbert.
Hightower, W. H.	Upson.
Howe, G. C.	Baldwin.
Ingraham, R. E.	Emanuel.
Johnson, T. F. Jr.	Chatham.
Kollock, E. C.	Habersham.
MacIntyre, D. I.	Fulton.
Marshall, J. L.	South Carolina.
McCarty, G. W.Jr.	Fulton.
McClure, H. H.	Floyd.
Pope, H. D.	Coweta.
Pritchard, W. O.	Fulton.
Rice, P. B.	Laurens.
Robert, L. W. Jr.	Jasper
Rogers, E. H.	Milton.
Simons, W. L.	South Carolina.
Slaughter, N. H.	Virginia.
Snyder, W. R.	Fulton.
Spivey, W T.	Meriwether.
Summer, E. S.	South Carolina.
Sweet, C, A.	Fulton.
Treanor, E. D. Jr.	Baldwin.
Vaughan, H. R.	Fulton.
Werner, R. C.	Fulton.

Wilby, R. B. . . . . . . Alabama.
Wilcox, W. M. Jr. . . . . Elbert.
Woodall, J. H. . . . . . . Talbot.
Woolfolk, A. R. . . . . .Fulton.
Worley, C. B. . . . . . . Florida.
Young, H. A. . . . . Putnam.

Sophomore Class.

Adamson, N. E. . . . . . . Floyd.
Adamson, W. L. . . . . Clayton.
Alford, W. B. . . . . . Gwinnett.
Allen, H. K. . . . . Upson.
Arrington, H. H. . . .Richmond.
Balkcom, M. W. Jr. . . . . Early.
Barkdull, G. W. Jr. . . Louisiana.
Barnwell, G. W. . . . . . Fulton.
Bell, S. I. . . . . Fulton.
Berry, C. O. . . . . Whitfield.
Bone, W. H. . . . . . . Baldwin.
Bostwick, C. E. Jr. . . . . Ware.
Brewster, E. F. . . . . . . Fulton.
Cheatham, R. B. . . . . . . Bibb.
Clarke, W. C. . . . . Newton.
Connally, L. C. . . . . . . Fulton.
Cook, J. R. . . . . Newton.
Cureton, J. G. . . . . Dade.
Dumas, H. M. . . . . Cobb.
Duncan, G. W. Jr. . . . . . Bibb.
Dunham, F. O. . . . . . . Decatur.
Dunwoody, R. . . . . . . DeKalb.
Fernandez, R. . . . . Cuba.
Gable, F. R. . . . . Fulton.
Gardner, F. H. . . . . . . Elbert.
Garner, M. R. . . . . .Gwinnett.
Gary, F. P. . . . . . Richmond.
Gaskin, P. H. . . . . Irwin.
Giles, B. D. . . . . Texas.
Hammock, A. D. . . Rockdale.
Harrison O. L. . . . . . DeKalb.
Heaton, G. A. . . . . Ohio.
Horsley, E. S. . . . . Terrell.
Howard, M. W. Jr. . . Muscogee.
Jones, A. P. . . . . Cobb.
King, E. A. . . . . Polk.
Lewis, T. L. Jr. . . . . . Milton.
Luck, G. F. . . . . . . Clayton.
Maddox, J. . . . . Floyd.
Magruder, T. V. . . . Mississippi.
Mann, E. T. . . . . . . Meriwether.
Moore, H. . . . . Clayton.
Morgan, R. A. . . . . Polk.
Morris, C. R. . . . . Floyd.
Murray, H. . . . . . . Muscogee.
Muse, E. H. . . . . Fulton.
Myers, P. H. . . . . Walker.
Myers, Z. V. . . . . Walker.
McCarty, J. R. . . . . . . Fulton.
Napier, J. W. . . . . Bibb.
Parrish, C, R, ... Bulloch.
Pease, W. C. Jr. . . . . Muscogee
Pool, W. T. . . . . Pickens.
Pratt, N. F. . . . . Cobb.
Reese, C. B. . . . . Elbert.
Rich, W. T. . . . . Fulton.
Robertson, M. T. . . . Whitfield.
Rodriguez, C. I. . . . . Cuba.
Round, H. Y. . . . . Thomas.
Semmes, G. W. . . . . Tennessee.
Sevier, G. W. Jr.. . . . . Tattnall.
Smedes, H. D. . . . . Louisiana.
Smith, E. W. . . . . Bibb.
Smith, G. B. . . . . Fulton.
Smith, W A. . . . . . . Florida.
Sperry, C. A. Jr. . . . . . Macon.
Spivey, E. T. . . . . . Mississippi.
Sutcliffe, J. W. . . . New York.
Taylor, A. H. Jr. . . . . Florida.
Tutwiler, W. S. . . . . . Chatham.
VanGoidtsnoven, W. L. E. Fulton.
Wallin, L. I. . . . . Walker.
Watson, E. T. . . . . Fulton.
White, S. A. . . . . Chatham.
Wilcox, L. B. . . . . Bibb.
Williams, W. L. . . . . Bibb.
Wilson, E. G. . . . . . Spalding.
Wolfe, P. B. . . . . . Tennessee.
Wright, J. . . . . Brooks.

Freshman Class.

Abbott, A. L. . . . . Fulton.
Alexander, J. S. . . . . . Henry.
Alford, J. R. . . . . . . Florida.
Allen, J. R. . . . . Fulton.
Anderson, C. E. . . . . . Jackson.
Atkinson, F .B.. . . . . . . Glynn.
Atwell, J. R. . . . . Bibb.
Auld, I. M. . . . . Florida.
Baldwin, J. S.. . . . . . Tennessee.
Barge, J. A. . . . . . .Washington.

Barker, N. L. Jr.	Troup.
Bealer, W. P.	Telfair.
Beckwith, H. B.	Newton.
Bedell, A. S.	South Carolina.
Behre, T. S.	Fulton.
Betts, C. A.	Tennessee.
Blucher, A. G.	Texas.
Boozer, D.	Brooks.
Borders, C. R.	Polk.
Bowman, A. H.	Louisiana.
Bradley, H. Y.	Fulton.
Brevard, P.	Texas.
Brown, B. B.	Crisp.
Brown, W. S.	Tennessee.
Buchanan, C.	Tennessee.
Burt, A. M. Jr.	Bibb.
Cabaniss, R.	Fulton
Carlton, H. R.	Fulton.
Chandler, E. F.	Coweta.
Clark, C. R.	Fulton.
Clarke, J. T.	Fulton
Clarke, L. C.	Cobb,
Coleman, P. M.	Fulton.
Combs, E. S.	Henry.
Connally, D. G.	Texas.
Cook, H. A.	Newton.
Cook, W. F. Jr.	Chattahoochee.
Corley, J. W.	Cobb.
Crane, J. E.	DeKalb.
Crawford, A. G. R.	Texas.
Cronheim, D. H.	Fulton.
Dampeer, J. D.	Mississippi.
Daughtry, R. B.	Butts.
Davis, A.	Fulton.
Davison, T. A. Jr.	Terrell.
Dawson, J. D. Jr.	Richmond.
Dawson, V. S.	Richmond.
DeLoach, A. K.	Bulloch.
Dillard, R. B.	Habersham.
Dinsmore, J. M.	Pennsylvania.
Donaldson, M. L.	Fulton.
Doremus, F.	Richmond.
Drake, G. J.	Spalding.
Dunn, C. C.	North Carolina.
Edmondson, C. W.	Troup.
Edwards, L. W.	Spalding.
Eldredge, A. S.	Florida.
Elgin, L. N.	Fulton.
English, R. H.	Warren.
Erwin, H. M.	Hall.
Estes, H. H.	Hall.
Fellers, W. M.	Florida.
Ferst, H. W.	Chatham.
Finch, B. C.	Texas.
Fleming, H. M.	Muscogee.
Flythe, J. W.	Richmond.
Fortson, B. S.	Wilkes.
Freeman, Y. F. Jr.	Meriwether.
Furlow, C. T.	Fulton.
Gaines, M. L.	Elbert.
Gantt, J. A.	Bibb.
Gardner, W. C.	Bartow.
Garner, G.	Gwinnett.
George, T. M. N. Jr.	Cobb.
Glover, C. V. C.	Fulton.
Goette, F. H.	Glynn.
Gordy, S.	Muscogee.
Graves, W. S.	Floyd.
Gribben, P. H.	Thomas.
Halliday, N. W. Jr.	Stewart.
Hammett, A. H.	Clayton.
Hausmann, F. W.	Florida.
Hazlehurst, G. H.	Tennessee.
Hazlehurst, J. G.	Tennessee.
Herault, P. C.	Florida.
Hesterly, H. W.	Carroll.
Hill, E. D.	Wilkes.
Hodges, S. N.	Houston.
Howard, W. R.	Fulton.
Howe, W. F.	Baldwin.
Hurst, C. L.	Mitchell.
Inglesby, G. S.	Chatham.
Inglesby, J. E.	Chatham.
Ivey, E. D.	Thomas.
Ivey, J. W.	Thomas.
Jacobs, F. S.	Mississippi.
Jarvis, C. E. Jr.	Fulton.
Jennings, E. R.	Arkansas.
Johnson, M. C.	Fulton.
Jones, C. E.	Fulton.
Jones, C. R.	Fulton.
Jones, J. W.	Coweta.
Jordan, T. R. W.	Richmond.
Kimbell, C. L.	Newton.
Kellogg, W. D.	Fulton.
LaFitte, E. F.	Fulton.
Lang, O. H.	Camden.
LeCraw, C. S.	Fulton.
Legg, M. F.	Fulton.
Lightner, R. C.	Tennessee.
Lingo, T. L.	Washington.
Loeb, G. G.	Mississippi.
Lowenherze, A. S.	Muscogee.
Lumpkin, H. C.	Brooks.

Lyon, E. H.	Fulton.
McArthur, P. A.	Tattnall.
MacDonell, R. A.	Camden.
Marshall, W. B.	Putnam.
Markley, W. A.	Fulton.
May, J. J.	New York.
Meadows, M. C.	Carroll.
Means, C. P.	Fulton.
Mehaffey, J. J.	Fulton.
Michael, H. L.	Walton.
Miller, M.	Texas.
Millsaps, P. R.	Tennessee.
Mitchell, F.	Thomas.
Mize, T. N.	Jackson.
Mobley, L. R.	Walton.
Mosheim, W. M.	Texas.
Munroe, L. R.	Florida.
Murphy, W.	Pike.
Murray, H. M.	Coweta.
McCann, W. P.	Richmond.
McMillan, R. N.	Fulton.
McNair, C. W.	Mitchell.
McNamara, H. C.	Troup.
McRae, F. W. Jr.	Fulton.
Neel, F. C.	Pike.
Neville, W. H.	Mississippi.
Nolan, Q. R.	Henry.
Noyes, H. R.	Camden.
Ogletree, F. H.	Fulton.
Pappa, J. H.	Fulton.
Pappenheimer, J.	Fulton.
Parker, L. M.	Fulton.
Parker, R. C.	Hart.
Pezuela, J. J.	Florida.
Pfeiffer, L. O.	Screven.
Pharr, R. H.	Wilkes.
Philips, A. J.	Telfair.
Pope, J. W. Jr.	Fulton.
Prince, J. T.	Fulton.
Reese, P. W.	Carroll.
Richardson, E.	Fulton.
Rodgers, H. A.	Tennessee.
Rogers, J. F. Jr.	Bibb.
Rountree, A. C.	Brooks.
Scott, I. A.	Coweta.
Shellman, W. F.	Chatham.
Simmons, C. M.	Floyd.
Simmons, S. C.	Fulton.
Sims, R.	Wilkes.
Smith, C. H. Jr.	Fulton.
Smith, R. C.	Tennessee.
Spalding, J. J. Jr.	Fulton.
Steffner, S. U.	Tennessee.
Stewart, R. J.	Jones.
Stewart, R. R.	Coweta.
Summerour, B. F.	Milton.
Summerour, J.	Milton.
Summerour, J. H.	Gwinnett.
Summers, R. B.	Rockdale.
Thiesen, R. J.	Florida.
Thompson, G. C.	Butts.
Turner, E. R.	Troup.
Turner, H. L.	Hall.
Underwood, J. L.	Alabama.
Walker, I. D.	Washington.
Waldron, B. W.	Fulton.
Wallin, T. M.	Walker.
Ware, N. B.	DeKalb.
Warner, H. A.	Fulton.
Watson, K.	Mississippi.
Webster, E. A.	Pickens.
White, J. H.	Texas.
Whitner, J. C.	Fulton.
Williams, J. P.	Harris.
Willingham, J. D	Fulton.
Wilson, W. S.	Fulton.
Winship, J.	Fulton.
Wood, H. J.	Florida.
Woodall, J. C.	Texas.
Wright, W. C.	Floyd.
Yarborough, J. W.	Hancock.
Yeandle, S. S.	Fulton.

Apprentice Class.

Adair, F. Jr.	Fulton.
Adams, J. L.	Newton.
Adams, W. I.	Thomas.
Adkins, F. S.	Oglethorpe.
Alexander, W. A.	Charlton.
Allen, W. G.	Fulton.
Amorous, C. B.	Fulton.
Andrew, J. V.	Florida.
Arnheiter, C.	Glynn.
Austin, T. H. Jr.	Fulton.
Avery, M. S.	Florida.
Branan, C. B.	DeKalb.
Baird, H. S.	Fulton.
Baker, J. N.	Florida.
Baker, R. B.	Florida.
Beall, J. C.	Fulton.

Beattie, T. Jr. . . . Louisiana.
Bennett, G. A. . . . . . . Fulton.
Binns, C. . . . . Wilkes.
Blackshear, A. D. . . . Laurens.
Blackshear, E. M. . . . Alabama.
Blesse, F. V. . . . . Texas.
Bloomguist, C. A. G. Jr..Chatham.
Bowen, O. W.. . . . . . .Hancock.
Brannon, F. W. . . . . .Coweta.
Brice, J. S. . . . . .Thomas.
Brooks, C. B. . . . . . . Franklin.
Brown, E. H. . . . . . . Jefferson.
Burnett, W. B. . . . . . Clarke.

Caldwell, J. L. . . . .Tennessee.
Camp, R. H . . . . .Coweta.
Campbell, G. W. Jr.. . . . Floyd.
Carr, H. E. . . . . . . .Tennessee.
Chason, J. G. . . . . . . .Decatur.
Clark, R. H.. . . . . . . Jefferson.
Clarke, W. E. . . . . Richmond.
Clifton, J. A. Jr. . . . . Texas.
Cobb, J. P. . . . . Franklin.
Cobb, W. E. . . . . Glynn.
Collins, P. K. . . . . . . Campbell.
Cox, E. F.. . . . . Fulton.

Darby, A. P. . . . . Toombs.
Day, T. J. . . . . .Fulton.
Derrick, F. B. . . . . . . .Rabun.
Doll, J. M. . . . . Louisiana.
Donaldson, T. J. Jr. . . . Fulton.
Donovan, W. O. Jr. . . . Toombs.
Durden, P. . . . . Emanuel.

Evans, L. G.. . . . . Brooks.
Eve, W. F. Jr. . . . .Richmond.
Fallaize, E. . . . . Fulton.
Falligant, R. . . . . . . Chatham.
Ferst, M. A. . . . . . . .Chatham.
Franklin, B. P. . . . Meriwether.
Freeman, H. . . . . . . .Virginia.

Frye, F. W. . . . . Fulton.
Furlow, H. L. . . . . . . .Fulton.
Futch, T. D. . . . . Florida.
Fuller, P. H. Jr..South Carolina.

Garrett, V. H. N. . . .Richmond.
Gordon, J. B. . . . . . Muscogee.
Gould, R. A. . . . . Glynn.
Gray, R. C. . . . . . . .Whitfield.
Green, L. F. . . . . Burke.
Gregg, W. A. . . . . Fulton.
Griffin, N. . . . . .Fulton.
Griffin, R. . . . . Clayton.
Gruber, M. . . . South Carolina.

Harris, R. L. . . . . .Henry.
Harvin, C. J. . . . . . . Calhoun.
Haynes, M. . . . . Fulton.
Hendee, L. R. K. . . . .DeKalb.
Henderson, A. S. J. . . . Erwin.
Hero, N. C. . . . . . . .Louisiana.
Hill, D. . . . . .New York.
Hill, M. S. . . . . .Wilkes.
Hook, E. B. Jr. . . . .Richmond.
Howard, I. E. . . . . . Oglethorpe.
Hulse, W. L. . . . Tennessee.
Ingram, P. . . . . Fulton.
Ingle, R. B. . . . . Fulton.
Irwin, R. D. . . . . .Floyd.
Jones, J. M.. . . . . Fulton.
Jones, T. W. . . . . .Fulton.
Kelley, R. A. Jr. . . Washington.
Kollock, G. J. . . . . .Habersham.
Kunze, A. E. . . . . .Florida.
Landrum, L. M. Jr. . . . Fulton.
Lawson, W. T. Jr.. . . . Monroe.
Leslie, A. Y. . . . . DeKalb.
Little, A. C. . . . . . . .Franklin.
Linder, T. M. . . . . . . .Laurens.
Lloyd, A. W. . . . . Fulton.
Lokey, S. O. . . . . .Fulton.
Lowe, H. S. . . . . .Spalding.
Mains, C. E. . . . . .Missouri.
Mann, L. . . . . .Coweta.
Mason, J. I. . . . North Carolina.
Mather, W. C. . . . . . . Pulaski.
Mathews, H. F. . . . . . . Talbot.
Mathews, J. P. . . . . . . Warren.
Mathis, J. D. . . . . .Sumter.
Means, A. B. . South Carolina.
Mecaslin, J. H. Jr. . . . Fulton.
Meyers, E. O. . . . . . .Louisiana.
Middlebrooks, J. R. . . Hancock.
Morel, J. M. . . . . Screven.
Morgan, L. B. . . . . Fulton.
Murphy, E. S. Jr. . . . . . Pike.
McBroom, J. H. . . . Tennessee.
McCarty, J. D. Jr. . . . . Fulton.
McDougald, W. . . . . Bulloch.
McRae, K. C. . . . . Fulton.
Nash, J. T. . . . . .DeKalb.
Nelms, C. L.. . . . . . . Franklin.
Neville, L. . . . . .Rabun.
O'Kelley, F. H. . . . . Rockdale.
Oliver, T. S. . . . . Florida.
Overstreet, R. C. . . . . Screven.
Paschal, L. W. . . . . Columbia.
Peacock, A. Jr. . . . . . . .Pike.

Persons, T. H. Jr.	Talbot.
Philips, L. W.	Telfair.
Pitman, J. F.	Fulton.
Plane, W.	Fulton.
Quinn, C. W.	Thomas.
Ray, L.	Tennessee.
Reynolds, W. L.	Fulton.
Ridley, C. H.	Fulton.
Roberts, G. H. Jr.	North Carolina.
Sciple, C. M.	Fulton.
Scott, J. R.	Troup.
Seckinger, B.	Tattnall.
Shaffer, R.	Dougherty.
Shingler, W. G.	Turner.
Simon, H. H.	Fulton.
Sims, J. B. Jr.	Coweta.
Sinclair, B. W.	McIntosh.
Smith, G. A.	Houston.
Smith, H. R. Jr.	Emanuel.
Smith, W. G.	Fulton.
Stewart, W. F.	Glynn.
Stubbs, C. M.	Bibb.
Suarez, F.	Cuba.
Suarez, R.	Cuba.
Summerour, P. W.	Gwinnett.
Taylor, J. B.	Fulton.
Taylor, J. S.	Spalding.
Thomas, A. A.	Telfair.
Thomas, E. S.	Clarke.
Thomason, E. K.	Fulton.
Tillman, C.	Polk.
Tippins, L. H.	Tattnall.
Tommins, J. A.	Richmond.
Travis, C. H.	Coweta.
Trotti, E. E.	DeKalb.
Tucker, G. D.	Tennessee.
Vining, C.	Morgan.
Walden, J.	Jefferson.
Walker, W. L.	Texas.
Wallace, C.	Fulton.
Ward, E. E.	Calhoun.
Washington, A.	Mississippi.
Webb, G. D.	Randolph.
Westberry, W. H.	Worth.
Whatley, T.	Taylor.
Wood, C. M.	Bibb.
Woods, G. J.	Tennessee.
Wootten, M. F.	Wilkes.
Wright, J. H.	Glynn.
Wright, M. H.	Tennessee.
Yarrington, R. M. Jr.	Texas.
Yow, P.	Stephens.

Special Textile No. 1.

Blakeney, E. L.	Texas.
Bull, N. A.	South Carolina.
Clifton, H. C.	Texas.
Haverty, R.	Fulton.
Malhiot, R. G.	Louisiana.
Mandeville, L. C. Jr.	Carroll.
Mattox, R. W.	Coweta.
McDonald, R. E., Jr.	N. Carolina
McKnight, P. R.	Coweta.
McLaurin, J. B.	S. Carolina
McPherson, A. L. A.	Troup.
Pratt, D. B.	Alabama.
Rogers, J. C.	Muscogee
Simpson, L. R. J.	Stewart

Special Textile No. 2.

Carver, R. N.	Spalding.
Dean, J. F. Jr.	Mississippi.
Hero, L. P.	Louisiana
Simpson, E. H.	Mississippi.
Stephens, M. J.	Muscogee.
Whaley, E. R.	Hancock.

Artisan.

Baker, F. H.	Fulton.
Brown, B. H.	Sumter.
Johnson, B. R.	Jones
Kaufman, B.	Glynn
Levy, M. H.	Chatham.
Steinheimer, L. M.	Fulton.

SUMMARY OF REGISTRATION.

Senior class	36
Junior class	52
Sophomore class	79
Freshman class	196
Apprentice class	173
Special Textile No. 1	14
Special Textile No. 2	6
Artisan	6
Total	562

TABLE.

Percentage of Enrollment Having Residence in Country, Village, Town and City.

Country.	Village	Town	City
12%	6%	32%	50%

TABLE.

Occupation of Parents or Guardians of 562 Students, Georgia School of Technology.

OCCUPATION.	NO.
Clerks	36
State Officers	12
Contractors	7
Farmers	106
Merchants	103
Insurance Men	18
Manufacturers	50
Lawyers	30
Physicians	30
Cotton Merchants	12
Teachers	10
Ry. Agents	15
Engineers	19
Traveling Salesmen	21
Workmen	35
Miscellaneous	58
Total	562
Total number of graduates	297
Number deceased	7
Number of living graduates	290
Graduate Mechanical Engineers	154
Graduate Electrical Engineers	60
Graduate Textile Engineers	52
Graduate Civil Engineers	12
Graduate Engineering Chemistry	12
Total	290

Graduates in business as follows:

General Engineering	32
Mechanical "	92
Electrical "	59
Textile "	41
Civil "	14
Engineering Chemistry	22
Merchandise, Real Estate and Agencies	14
Teachers	6
Physicians	2
Lawyers	1
Army Officers	3
Farmers	2
Ministers	2
Total	290

NOTE:—It is impossible to form an accurate table which will show the percentages of graduates in different branches of engineering who are pursuing the special branches in which they received diplomas. Many Mechanical graduates, for instance, easily fall into the Electrical business and the reverse. However, it is seen from the above table that out of two hundred and ninety living graduates there are only thirty who are in other pursuits, showing that virtually ninety per cent. of the graduates of the School are engaged in the profession of engineering. It may be said also that many of those who seem not to be in the engineering business utilize constantly their knowledge of engineering in the particular business which they pursue.

The Mechanical Engineering Degree was established when the School began in 1888; the Degrees of Electrical and Civil Engineering in 1896; the Degree of Textile Engineering in 1898; the Degree of Engineering Chemistry in 1901; and the Degrees of Mining Engineering and Chemistry in 1906.

HISTORY AND GENERAL INFORMATION.

During the session of the Legislature of Georgia in 1882, a committee of ten was appointed to visit technical institutions in the North and report on the advisability of establishing a technical school in Georgia.

The committee made its report at the summer session of the Legislature in 1883, recommending the establishment of the school. A bill was introduced for that purpose, and was lost, receiving only sixty-five votes. The people of the State were appealed to by the supporters of the measure, and it was the issue in many counties in the election of members of the next Legislature. The State Agricultural Society recommended it, and many other prominent organizations of the State pressed the matter upon the attention of the people.

The bill was introduced again by Hon. N. E. Harris, and was passed at the summer session, October 16, 1885, appropriating $65,000 to found the school.

The first Board of Commissioners was appointed by Gov. McDaniel, on or about January 1, 1886, as follows: N. E. Harris, S. M. Inman, E. R. Hodgson. O. S. Porter, and Columbus Heard. The Board organized and elected N. E. Harris chairman and S. M. Inman secretary and treasurer.

The Act provided for competitive bids from various sections of the State for the location of the school, and the Commission, after considering propositions, located the school in Atlanta. This action was based upon the following superior inducements offered by Atlanta: (a) $50,000 in cash donated by the city; (b) $2,500 annuity for twenty years; (c) a citizens' subscription of $20,000, headed by the Hon. S. M. Inman with a donation of $5,000. A campus of nearly five acres was purchased on North Avenue from the Peters Park Company, of which the Hon. Richard Peters was president and practically sole owner. The Commission having decided that the campus was too small for the purposes of the school, Mr. Peters, with characteristic generosity, donated four additional adjoining acres, having a cash value of $10,000.

During the summer of 1888, the buildings and part of the equipment being ready, a faculty was elected, and academic and shop work began October 3 of that year.

By Act of the Legislature, December 9, 1890, two other trustees were added to the local board, and on January 7, 1891, Messrs. D. N. Speer and W. B. Miles were duly elected. Relative to the further personnel of the board, Mr. D. N. Speer resigned June, 1893, and was succeeded by Mr. George Winship, of Atlanta. Due to removal from the city, Mr. S. M. Inman resigned October, 1897, and was succeeded by Mr. Geo. W. Parrott, of Atlanta, who served until June, 1899. Upon Mr. Parrott's resignation on that date, Mr. Walter M. Kelley, of Atlanta, was duly elected.

In March, 1891, an Apprentice Class was established, for the purpose of preparing those students for the Freshman Class whose opportunities for advancement in studies had been limited.

On April 21, 1892, between two and five o'clock a. m., the school-shops were totally destroyed by fire. With the insurance on the building and machinery, and an additional appropriation made by the Legislature, the building and machinery were at once replaced, and the result of the misfortune was, in the end, most beneficial, as both building and equipment are superior to the original plant.

The leading object of the school is to teach the principles of science, especially those which relate to the mechanical, industrial, and textile arts.

The school offers an education of high grade, founded on Mathematics, the English Language, Modern Languages, Physical and Industrial Sciences, and Drawing, and the splendid record of its complete roster of graduates fully justifies its claim to engineering standards of the highest degree.

In December, 1896, the Legislature appropriated $20,000; of this amount, $5,000 was for the equipment of a Department of Electrical Science, and $15,000 for building a dormitory. The dormitory was duly erected and first occupied by students at the opening of the fall session of 1897.

The Local Board of Trustees met in December, 1896, and established the Degrees of Electrical Engineering and Civil Engineering.

In December, 1897, the Legislature appropriated $10,000 for the establishment of a Textile Department, provided that the friends of the school contribute $10,000 additional in money and machinery.

During the year 1898 nearly $20,000 worth of machinery was donated to the school, and about $13,500 in cash. Experienced mill architects were employed to make plans for the Textile building described on page 49. The regular course in Textiles, both in theory and practice, began in the fall of 1899.

Mr. Aaron French, of Pittsburg, Pa., became interested in the school in the summer of 1897, and when he was asked to co-operate in meeting the conditions imposed by the Legislature, he made several donations. The first $2,600, was given without any condition. The second $3,000 was given provided the friends of the school raise $3,000 additional.

The city of Atlanta promptly met this condition by appropriating the necessary $3,000 in July, 1898.

Mr. French's third donation amounted to $3,000, and enabled the trustees to make material increase in the size of the Textile building.

Other gifts to the school have been as follows:

From Mr. J. W. Rucker for maintenance, in June 1899	$ 3,000
From Mr. Aaron French for maintenance, in June, 1899	3,000

From Mr. Aaron French for scholarship, in July, 1898	500
From Mr. Aaron French for scholarship, in December, 1899	500
From Mr. Aaron French for maintenance, in January, 1900	3,500
In 1900 the following:	
From James Swann for dormitory	$21,500
From other citizens and friends	13,500
From Mr. Aaron French for scholarship, in 1901	500

In December, 1900, the Legislature appropriated $10,000 for an Electrical building and $6,000 for additional textile equipment, with the proviso that these amounts would not be available until the friends of the school should furnish $25,000 in cash donations. The condition was promptly met.

In June, 1902, the General Educational Board offered to give the school $5,000 for equipment and $2,500 two successive years for maintenance, provided friends of the school would donate $10,000 additional.

The friends of the school responded by giving $12,910 in cash, as listed in the 1903-04 catalogue.

In 1903, the will of Mr. James Swann provided that the school should receive $10,000 in cash upon the settlement of his estate. This amount properly supplemented, was spent in the purchase of nearly two acres of land adjoining the campus, and in the erection on a portion thereof of a President's residence.

In June, 1903, Mr. Wm. R. Hearst, of New York, gave the school $5,000 in cash for such needs as the trustees might see fit to supply.

In June, 1904, the Legislature appropriated $10,000 for the erection of a Chemical Laboratory, provided friends of the school would give an equal amount.

Through the heroic efforts of the late President, Dr. Lyman Hall, the conditional amount was secured only a few weeks prior to his lamented death on August 16, 1905. During his nine years' incumbency of office, President Hall was chiefly instrumental in building the School from an insignificant and struggling existence to a proud position of equality with the other great engineering institutions of the country. Climaxing, as he did, his remarkable work by securing funds for the new Chemical building, it was considered eminently fitting that his name should be perpetuated in the structure. Therefore, in connection with memorial exercises in his honor, the cornerstone of the Lyman Hall Laboratory of Chemistry was laid with imposing ceremony, November 25, 1905.

The building was completed and fully equipped in the summer of 1906, and was duly occupied by the Department of Chemistry in October following.

On January 27, 1906, Mr. T. W. Smith, of Columbus, Ga., gave $600 for a scholarship, self-perpetuating on the basis of the French scholarships.

On March 12, 1906, Mr. Andrew Carnegie donated $20,000 for a Library building on condition that the school appropriate $2,000 annually for the support of the Library. The Board of Trustees accepted the condition, and the building was secured.

In August, 1906, the Legislature appropriated $17,500 for the purpose of enlarging the campus. Four acres east of the present campus, and fronting on North Avenue, were purchased for $16,000, and the balance of $1,500 was added to by friends to the amount of $3,500, with which sum a lot fronting 180 feet on Cherry Street and 150 feet on Kimball Street was purchased.

Options have been secured on a lot fronting 156 feet on North Avenue and 150 feet on Fowler Street. Friends of the school have contributed generously to a purchase fund, and it is confidently expected that the fund will soon be completed and the lot purchased.

DEPARTMENTS.

DEPARTMENT OF MATHEMATICS.

Great importance is attached to the study of Mathematics. Primarily the aim of the instruction is to supply the student with a working knowledge of those principles which he needs in the study of engineering; but since the acquisition of a ready and logical mind is quite as valuable as the ability to use the subject, it is not the purpose to subordinate altogether the logical development of mathematics to the practical side.

Instruction in this department is given by the use of text-books, supplemented by oral explanations and lectures. The student's knowledge of the subject is tested almost daily. Classes are subdivided into sections numbering usually from twelve to twenty, thus making possible individual treatment of students who require it.

Apprentice Class.

Algebra is completed through quadratics. There is much drill in the solution of exercises. Attention is given to the graphical representation and solution of equations. Text: Wentworth's Elementary Algebra.

Plane Geometry is completed. Many originals are solved and the fundamental ideas of Plane Trigonometry are given. Text: Sander's Geometry.

Freshman Class.

The Algebra course will include higher simultaneous equations, inequalities, ratio, proportion, variation, progressions, logarithms, binomial theorem, variables and limits, undetermined co-efficients, and partial fractions. Text: Hawkes' Advanced Algebra.

In Plane Trigonometry the usual topics will be given. Text: Crockett's Trigonometry.

In Analytic Geometry the point, line, polar co-ordinates, and transformation of co-ordinates will be studied. Text: Candy.

Sophomore Class.

This class will study Analytic Geometry and Calculus. Text: Nichol's Calculus and Candy's Analytic Geometry.

Junior Class.

Mathematics is continued in the Junior class by all students except those in the textile and chemical courses, during the first term, three hours per week. The work will be suited to the needs of the classes. It will include special topics, review, and applications.

DEPARTMENT OF CHEMISTRY.

(For description of new Chemical Laboratories, see p. 99.)

The courses offered by this department are intended to give the student, in the first place, a broad foundation in general and theoretical Chemistry, so that in his future work new problems may be met intelligently and solved. In the second place, to give him special training in those branches of Chemistry which have been most generally applied industrially, so that he may be immediately useful.

Two courses leading to degrees are offered. One to the Degree of Bachelor of Science in Engineering Chemistry, the other to the Degree of Bachelor of Science in Chemistry. The schedule of subjects required for the first will be found on p. 91, under Courses of Study, and for the second on p. 92.

Bachelor of Science in Engineering Chemistry.

The graduate will be prepared to pursue the subject either on its manufacturing or analytical side. With respect to his fitness to take up the work in chemical manufacturing, the

A LECTURE ROOM, CHEMICAL LABORATORY.

QUANTITATIVE LABORATORY.

FRESHMAN LABORATORY.

course offers exceptional opportunities. The work in Mechanical Engineering, embracing considerable shop practice, elementary mechanics, and the steam-engine, will enable him to understand machinery, superintend the running of it, and take charge of various mechanical operations. The course in drawing will enable him to understand mechanical drawings, and express his ideas by means of them. The course in Electricity will enable him to understand electrical appliances, and to superintend industrial operations carried on by means of electricity. His knowledge of Chemistry will enable him to determine the relative values of the raw materials offered by dealers, and to conduct intelligently operations based on chemical principles, detect imperfections in them, and suggest improvements. The work of the course being mainly chemical, the graduate will be prepared to undertake analytical work of almost any kind, and should be valuable in the laboratory, whether for general analytical, or for special work.

Bachelor of Science in Chemistry.

To meet the demand for skilled chemists and assayers, who are not necessarily engineers, this course is offered. It differs from the preceding course by the omission of Mathematics after the Freshman year, and the Engineering subjects, and substitution therefor of Mineralogy, Crystallography, and Geology; and the addition of another modern language. Also, the time devoted to chemical subjects has been increased both in the laboratory and the class-room.

It is expected that this course of study will equip the student with a more thorough and comprehensive knowledge of Chemistry.

The graduate will be fitted to undertake any line of general chemical work; and being especially prepared by his extended studies in Metallurgy, Assaying, and Mineralogy, can follow work in these lines.

The following is a brief description of the subjects taught in this department, in which it will be observed that laboratory work is a prominent feature throughout. The time given these subjects will be stated under "Courses of Study."

1. GENERAL INORGANIC CHEMISTRY.—All students. Drs. Emerson, Black and Boggs. Text: Remsen's Briefer Course.

The work in General Chemistry extends through the Freshman year, three hours per week being given to lectures and recitations, in which the subjects under consideration are amply illustrated by experiments serving to make clear and impress the principles and facts of the lesson. The lecture course is accompanied by laboratory work, two hours per week, in which the student becomes acquainted with chemical apparatus and manipulation, and is taught to observe chemical phenomena with care, and record them accurately in his note book.

2. ADVANCED INORGANIC CHEMISTRY.—Chemists: Dr. Boggs. Text: Holleman. A more detailed study and discussion of the principles of Chemistry. Begins in the Sophomore year.

3. QUALITATIVE ANALYSIS.—Chemists: Dr. Boggs. This subject is studied throughout the Sophomore year, averaging eight hours per week in the laboratory. The student is given a large number of mixtures to analyze, and in the latter part of the course, minerals and alloys, the proper determination of which necessitates the careful observation of many phenomena and the drawing of correct inferences from them, while at the same time his chemical knowledge is made permanent and accurate. Frequent quizzes and examinations are given to insure that the work is being done intelligently and not by rote. W. A. Noyes' Qualitative Anaylsis is used as a guide, and Fresenius and other texts as references.

4. QUALITATIVE ANALYSIS.—Optional with all Sophomores, except Textiles, who are required to take it. Dr. Emerson.

This is a course of four hours per week for one year, and is similar to the one outlined above, though abbreviated to meet the demands of those students who do not expect to pursue the subject of Chemistry. Text: Noyes' Qualitative Analysis.

5. QUANTITATIVE ANALYSIS.— Chemists: Drs. Emerson, Black, and Boggs. This course begins in the second term of the Sophomore year, and extends through the first term of the Senior year. It consists of general and applied Analytical Chemistry.

(*a*) *General Methods.* Text: Morse.

This work is intended to give the student a thorough grounding in analytical methods as a basis for the special work to be taken later, and is broad enough to enable him to cope with new problems, which he will necessarily meet in the pursuit of his profession.

(*b*) *Applied Analytical Chemistry.* In this practice commercial products will be selected for analysis, such as bleaching powder, soda, mordants, alloys, iron ores, slags, limestones, etc. The following are rather emphasized:—

Fuels.—A complete and proximate analysis of coal and a determination of its heating power by means of the Calorimeter. The bearing of the results on the value of the fuel will be dealt with in the lecture course.

Iron and Steel.—The usual determinations are made on iron and steel. These, together with the analyses of iron ores and limestones, and the work in fuel testing, will equip the student for work in laboratories connected with blast furnaces and steel works.

Water Analysis.—The determinations usually made to ascertain the fitness of the water for use in boilers, dyeing and domestic purposes.

Fertilizers.—The analysis of a complete fertilizer by the methods recommended by the Association of Official Agricultural Chemists.

Assaying.—The assaying of gold ores.

Gas Analysis.—The analyses of several gaseous mixtures of common occurrence, such as illuminating gases, flue gases, and gases from sulphuric acid works. The lecture course will deal with the calculations from these analyses, and with discussions of the results in their relation to the economical management of the operations.

Oil Testing.—The determination of the flash point of kerosene, the viscosity, flash point, cold test, etc., of lubricating oils.

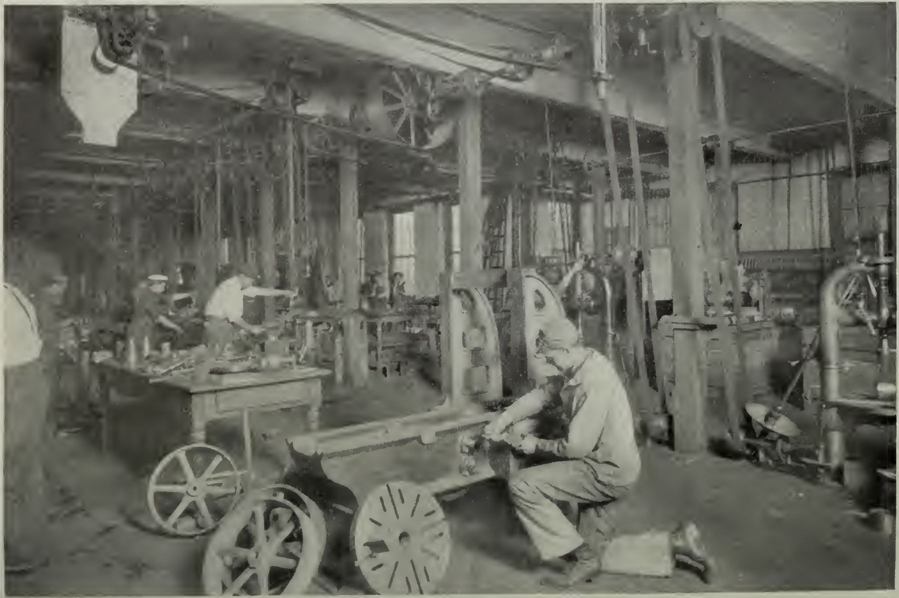
6. Organic Chemistry.—Chemists: Dr. Emerson. This course extends through the Sophomore, or Junior year, and consists of recitations and lectures, illustrated by numerous experiments. Perkin and Kipping's Organic Chemistry is used as a text. The accompanying laboratory course will familiarize the student with the apparatus used in organic work and with such operations as fractional distillation and crystallization, steam distillation, saponification, nitration, sulphonation, diazotization, which are operations conducted on a large scale in color works and other chemical industries. He will prepare a number of commercial products, such as nitro benzine, aniline, phenol and dyestuffs, and will also be required to make a satisfactory organic combustion.

7. History of Chemistry.—Chemists. A half-year course dealing with the lives and work of those who have contributed to the development of the science, and with the various theories which have prevailed from time to time.

8. Industrial Chemistry.—Chemists: Dr. Boggs. Text: Thorpe. Senior year. A topical study of the various industrial processes of greatest importance.

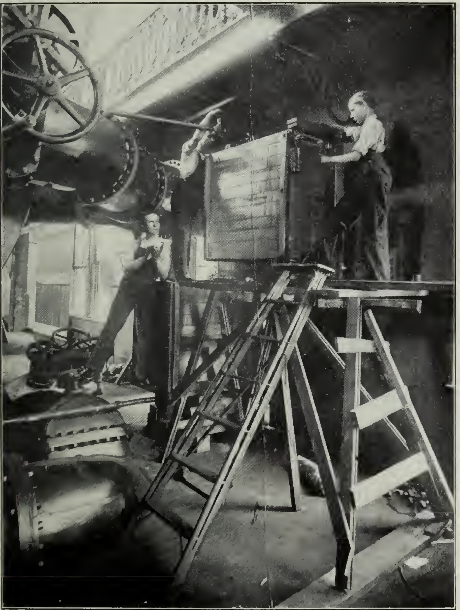
9. Advanced Qualitative Analysis.—Chemists: Dr. Boggs. Senior year. Discussions, collateral readings and practical work, using Volhardt and Zimmerman's Experimental Chemistry as a basis.

10. Physical Chemistry.—Chemists: Dr. Black. This course extends through the Senior year, and consists of lectures and laboratory work. It deals with such subjects as the laws of gases, solution, vaporization, condensation, fusion and solidification, electrolytic dissociation, etc., and is of practical value

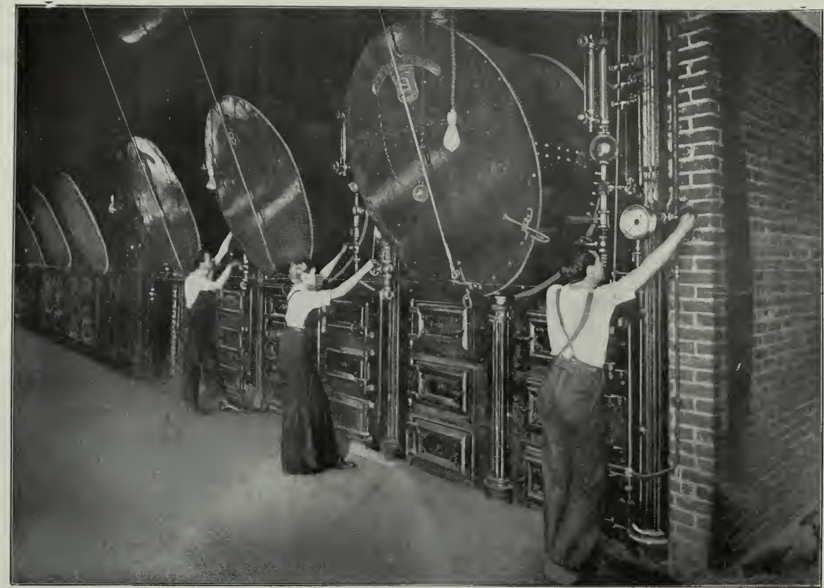


MACHINE SHOP—SECTION 2.

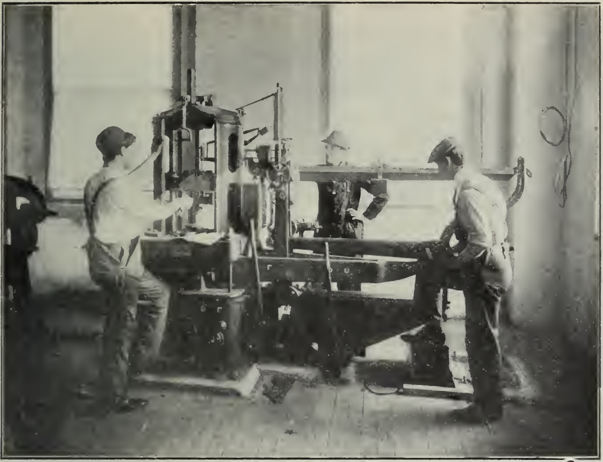
INDICATING AN ENGINE, BUILT IN SHOPS.



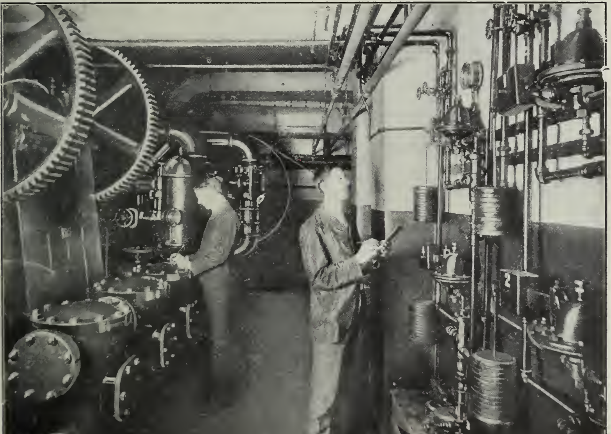
PUMPING ENGINE TEST, ATLANTA WATER-WORKS.



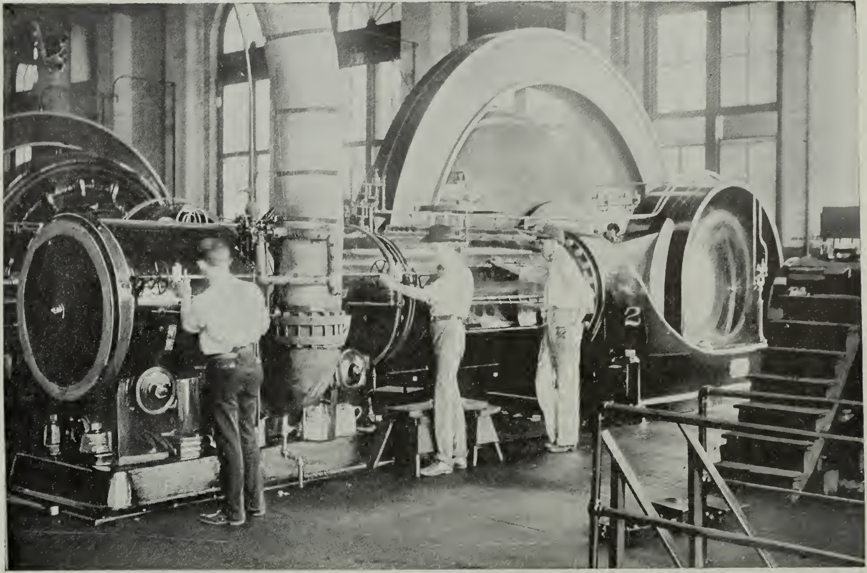
TESTING BOILERS, ATLANTA WATER-WORKS.



100,000-LB. RIEHLE TESTING MACHINE.



TESTING HYDRAULIC ELEVATORS, EMPIRE BUILDING, ATLANTA, GA.



INDICATING AN ENGINE—GEORGIA RAILWAY AND ELECTRIC COMPANY.

in throwing light on separations and purifications brought about by such physical processes as evaporation, distillation, electrolysis, filtration, crystallization, etc., processes very common in chemical manufactures, and which require intelligent control in order to secure the best results.

11. Thesis.—In the latter part of the Senior year the student prepares a thesis requiring original work.

DEPARTMENT OF MECHANICAL ENGINEERING.

All instruction in this department is based on strictly utilitarian lines.

The graduate's commercial valuation, on leaving the technical school, is invariably based on his helpfulness—on what he can *do,* and not on what he *knows*. He must *know* things and how to *do* them, and not simply know *about* them.

It is felt that a student purposing to take a course in Mechanical Engineering must at once manifest marked aptitude in at least one of the three branches: He must have special taste for, and ability in, the understanding and solution of mechanical problems, which require a good knowledge of mathematics; or he must show great quickness of insight, accuracy, and value in the drawing-room; or he must show marked ability as a handicraftsman in the shops. To be a successful engineer, he must excel in all three of these branches. If he excels in none, the case is plain that he has mistaken his calling, or his parents are mistaken, and it is a waste of time and of their money for him to remain here, and he is early advised to seek education in some other field of effort.

The studies taught in this department comprise Kinematics and Mechanism, Machine-Design, Analytic Mechanics, Applied Mechanics, Materials used in Engineering Structures, Strength of Materials, Steam Engineering, Prime Movers, and laboratory experiments.

In Kinematics—the Geometry of Machinery, or Pure Mechanism—the geometric relations of the moving parts of machines are investigated. This includes the proper forms of teeth of Spur Gear, both Epicycloidal and Involute (and their approximations by the use of the various forms of Odontographs), Bevel Gears, and Worm Gearing. This study is supplemented in the drawing-room by a thorough course in drawing the various forms of teeth, and familiarity gained with the best modern shop-practice in gear-cutting. Pure Mechanism also includes the study of various types of Epicyclic Trains, and a careful analysis of the velocity ratios of various parts of the steam-engine, with or without beams. This study will, in the near future, be illustrated by a set of excellent models, to be constructed in the school-shops by the students.

The study of Machine-Design will be by text-book and lectures, and also by practical application in drawing. It will include the various parts of machine tools, the steam-engine, pumping machinery, electrical machines, riveted joints, and the proper forms for strength and efficiency of the various parts of other machines in common use. A very important adjunct to this course of instruction will be the study of a magnificent collection of blue-prints of details of a large variety of machinery, for which we gratefully acknowledge obligations to the Calumet & Hecla Mining Company, of Boston; to the Dickson Manufacturing Company, of Scranton, Pa., and others. This incomparable collection of prints will be augmented from time to time.

In Analytic and Applied Mechanics the various forces in statics and dynamics are studied, and a wide range of problems in their practical application to machines is solved. The subjects to which special attention is directed are the various forms and expressions for force; the composition and resolution of forces, and their application to cranes, derricks, etc.; determination of center of gravity; friction; the principle of virtual velocities, and its application to the steam-engine; laws for the transmission of force in the various mechanical powers (so-called); equilibrium and pressure of fluids; accelerated motion and its application in particular to the steam-engine reciprocating parts; eccentric and cam motions; the theory of impact, constrained motion and centrifugal force; moment of inertia, and its application to the fly-wheel, etc.; the actions of governors; kinetic and potential energy; the simple, compound, and ballistic pendulum, etc.

The materials used in engineering structures will principally embrace the mechanical properties and treatment of iron and steel, and the various forms of "ingot metal"—Bessemer and Open-Hearth in particular—various alloys, timber and cements.

The strength of materials will comprise a combined investigation in class-room and laboratory of the strength of engineering structures, such as beams, pillars, or columns, and girders; the tensile, torsional, and transverse strength of wood and metals, graphic analysis of stresses in various forms of trusses; bursting strength of boilers, etc.

Steam Engineering will include the science of Thermodynamics—the conversion of heat into work in the steam-engine; the attendant losses and means of partially preventing the same; elaborate series of investigations, combined with the practical use of steam-engine indicator; types of indicators; effect of cylinder condensation; losses due to clearance and compression, constructing theoretical cards for compound, "triple expansion," and "quadruple expansion" engines; various types of valve-gears in common use; steam-boilers, etc.

In addition to the course of Steam Engineering will be given a study of other prime movers, such as turbines, over-shot and reaction wheels, and a study of the best modern examples, as the "Hercules," "Victor," "Pelton," "Hurdygurdy," etc.

Laboratory practice has been largely indicated in what precedes. It involves the use of various engineering appliances, such as pyrometers, pachometer, gauges, test-pumps, dynamometers, etc. A well-equipped experimental Mechanical Laboratory for carrying on this work is described later under heading, "Department of Experimental Engineering," which see.

There has been constructed in the school-shops, from our own designs, a transverse-testing machine for making transverse tests on iron and wooden beams, of a more delicate character than can be made on our larger machines. This machine reads accurately by quarter-pounds up to two thousand pounds.

For class-room demonstration there are many models, such as link-motion, plain slide-valve motion, section of model engines, pumps, etc.

WORKSHOP PRACTICE.

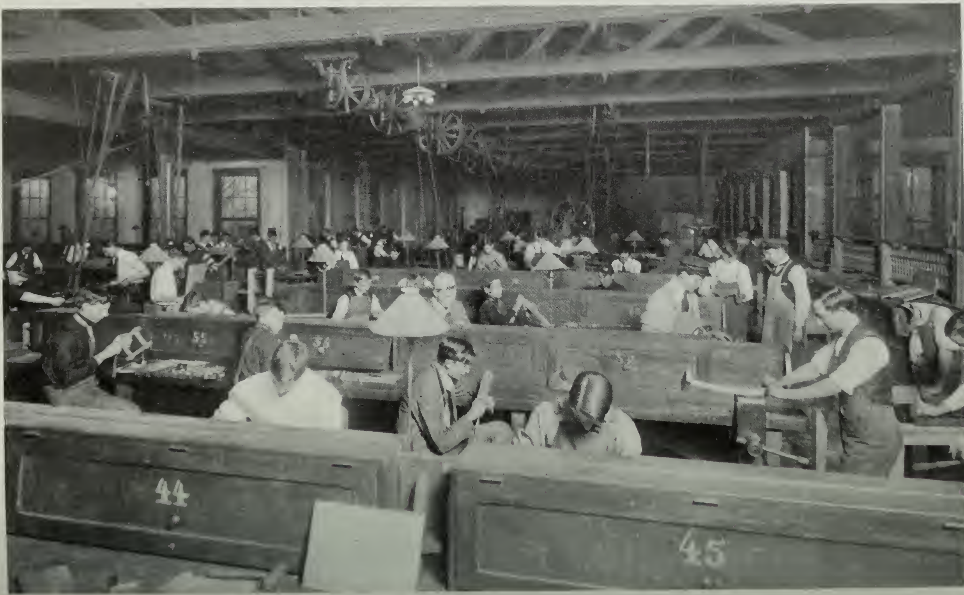
A distinctive feature of this School is the mechanical workshops, machine-shop, blacksmith-shop, foundry and wood-shop. Especial emphasis is placed on the importance of practical skill and experience to be gained in shopwork of the highest class. Work done here is not merely manual training. Advanced students are invariably employed in all the different shops, on tools and apparatus to be put to some useful purpose when completed.

The shops where students practice occupy a commodious two-story building, 310 feet long by 40 feet wide, with wings 30x40 and 12x40. The building contains the general offices of the shops, drafting-room, iron and wood-rooms, engine and boiler-rooms, wash-rooms and foundry. All these rooms are well equipped with the best modern iron and woodworking machinery and tools.

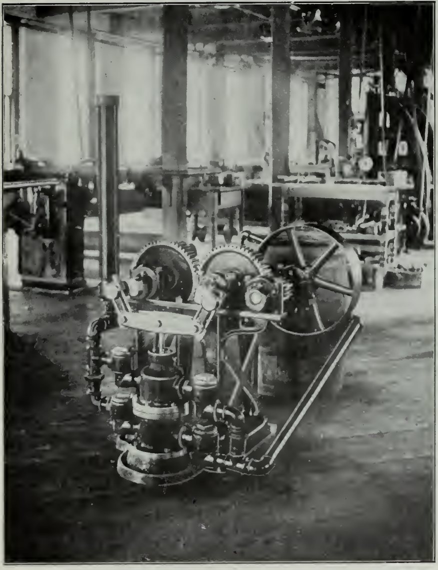
The shops are no longer run on the contract system. No outside work of any kind is done. A general idea of the character of work carried out may be gathered from notices of machines, etc., now being manufactured in the shops, at the end of this article. All work done in the shops is from our own

A FRESHMAN WORK-SHOP SECTION—FUTURE ENGINEERS.

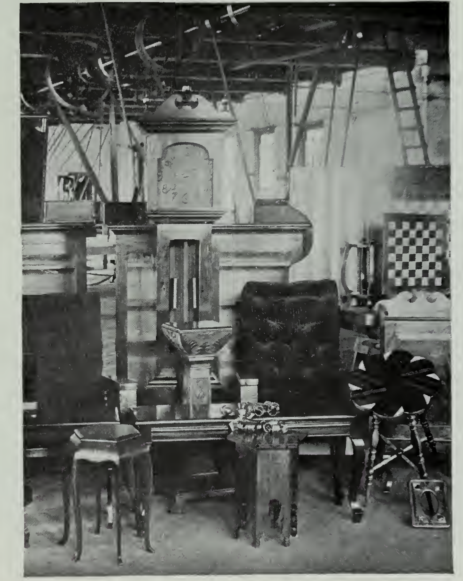
THE
JOHN CRERAR
LIBRARY.



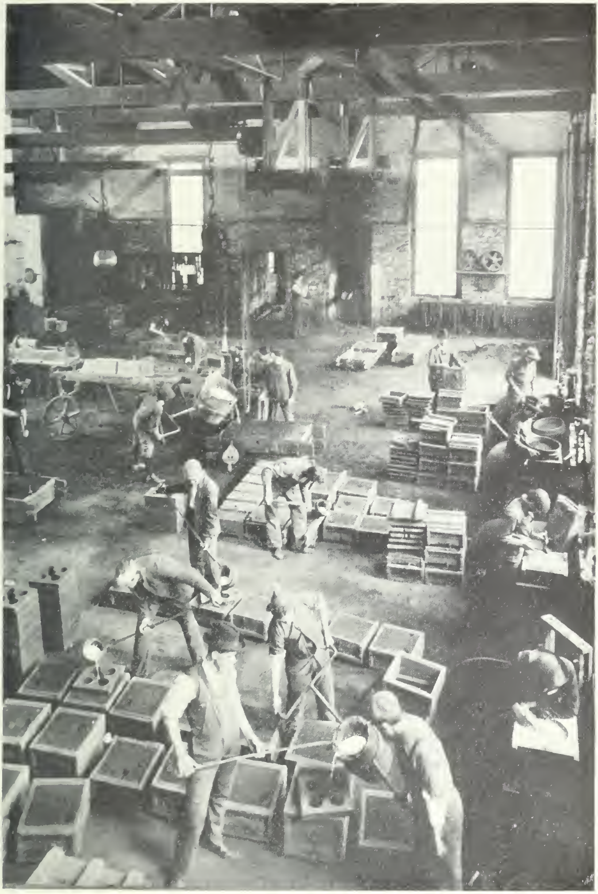
BENCH WORK—WOOD-SHOP.



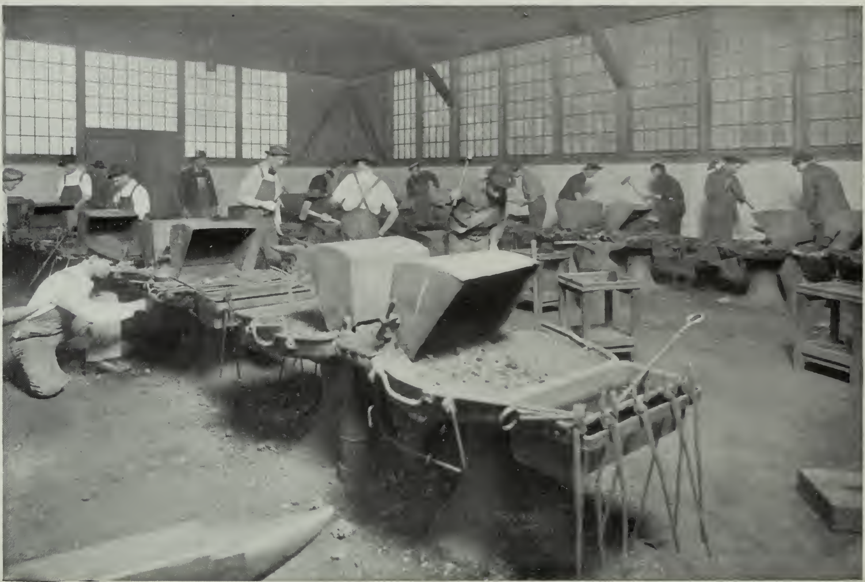
GEARED BOILER FEED PUMP, BUILT IN G. S. T. SHOPS.



SOME PRODUCTS OF THE WOOD SHOP.



THE FOUNDRY—RUNNING A HEAT.



SMITH SHOP.

designs, from working-drawings prepared by the students under careful and experienced supervision. The work in all departments calls for the highest abilities of the student.

The first or Freshman year is devoted entirely to woodwork. This includes a course of elementary instruction in laying out work with knife and pencil and the use of the ordinary hand-tools, such as saws, planes, chisels, etc. This is followed by a course in elementary pattern-work, introducing the use of the turning-lathe. After these elementary exercises the student works altogether upon practical work, which, for want of a better name, may be classed as cabinet-work. It consists for the most part of equipment for the shops or School, such as cabinets, tables, drawing-boards, physical apparatus, etc.

Instruction and practice is given in the use and care of the woodworking machinery, large and small circular saws, band and scroll saws, cylinder and buzz planers, boring, mortising and tenoning-machines. Eight hours per week are devoted to shop-practice throughout the Apprentice year.

Simultaneously with the foundry instruction, the student is given work in pattern-making. The two processes so closely related are thus carried on together; and the work in the pattern-shop is not merely manual-training school exercises. It is all work of a high class, carefully designed by an experienced practical engineer, every piece of which forms a part of some useful machine.

Throughout the remaining three years, each student devotes one day each week to the work in the shops. Students who are prepared to pass up the studies of the first year in the academic departments, and enter the school as Sophomores, are required to work one-half day extra each week for three years.

The work in the second, third and fourth years (Sophomore, Junior and Senior) is divided between the four departments of the shop, viz.: pattern-making, foundry, smith-shop, and machine-shop. During these years more time is devoted to the machine-shop than to any other department.

The foundry, which is unlike most foundries, in being a bright, cheerful place, is thoroughly equipped, having, besides a main moulding-room with a floor area of 40x90 feet, a core-room, two ovens for baking cores, a Collieau cupola in a fire proof annex having iron charging-floor and iron roof, a separate building in which are placed the rumblers and the picking vats, and another building for the brass-foundry.

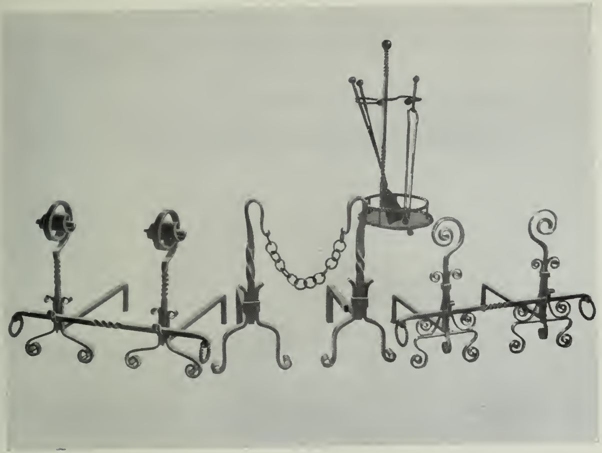
In the foundry the student is given careful and efficient instruction in green and dry sand-moulding, core-making, mixtures of iron, and brass-founding, and the mixtures of the various useful bronzes, aluminum-casting, and the aluminum bronzes.

The smith-shop occupies a separate new building, embodying the latest ideas in smith-shop construction. It is 37x70 feet with all four sides solid glass. It is equipped with twenty-one forges with Peter Wright's best forged anvils, and blast-pipes and smoke-ducts under ground. Smoke is carried away by a powerful exhaust fan, on the down-draft system, leaving the overhead space entirely free for admission of light. In one end are the foreman's office and a room fitted up with benches and vises for bench-work in forging. The smoke-exhaust fan is located overhead in the foundry (in another building), and the system works admirably. A more efficient and cheerful blacksmith-shop it would be difficult to imagine.

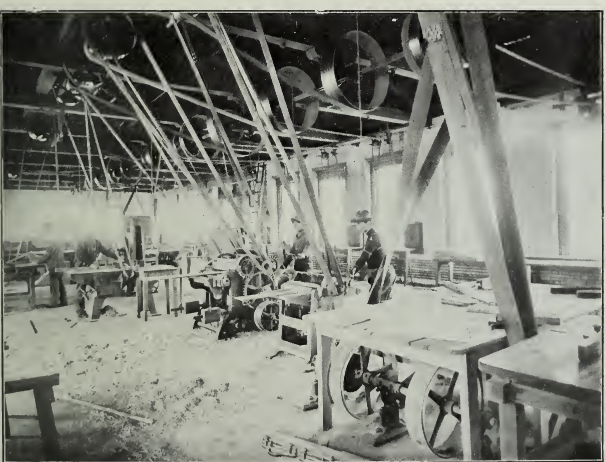
There will be installed in the smith-shop, during the coming year, three double emery-wheel stands, now building in our own shops, for tool-dressing, polishing, etc.

All the shops are lighted by electricity, both arc and incandescent.

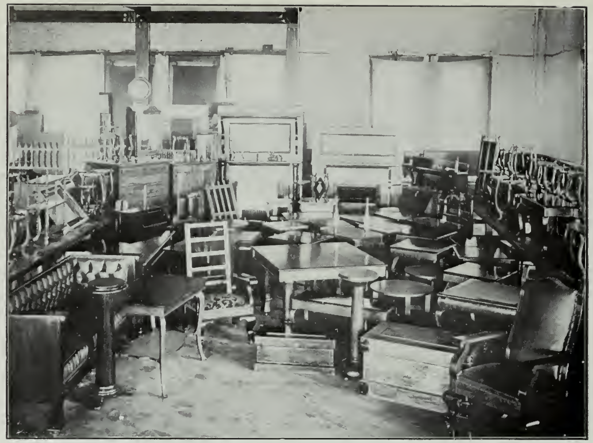
In the smith-shop the student is first given purely manual-training tasks in iron-forging, which are continued only so far as will enable him to acquire sufficient skill to forge some useful article. After that his work is confined to such articles as possess intrinsic value. We received a silver medal at the Cotton States and International Exposition on our display of small



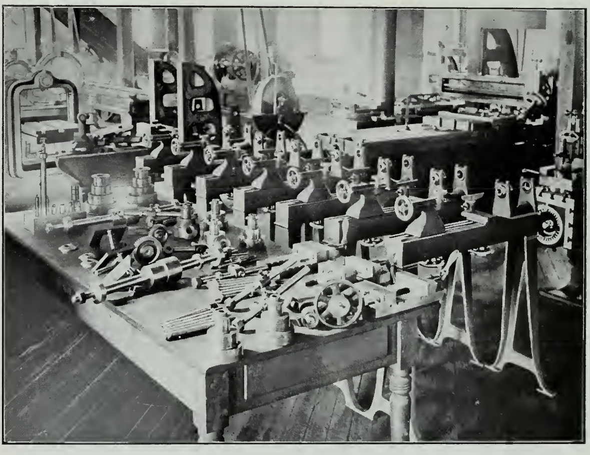
ANDIRONS MADE IN SMITH SHOP.



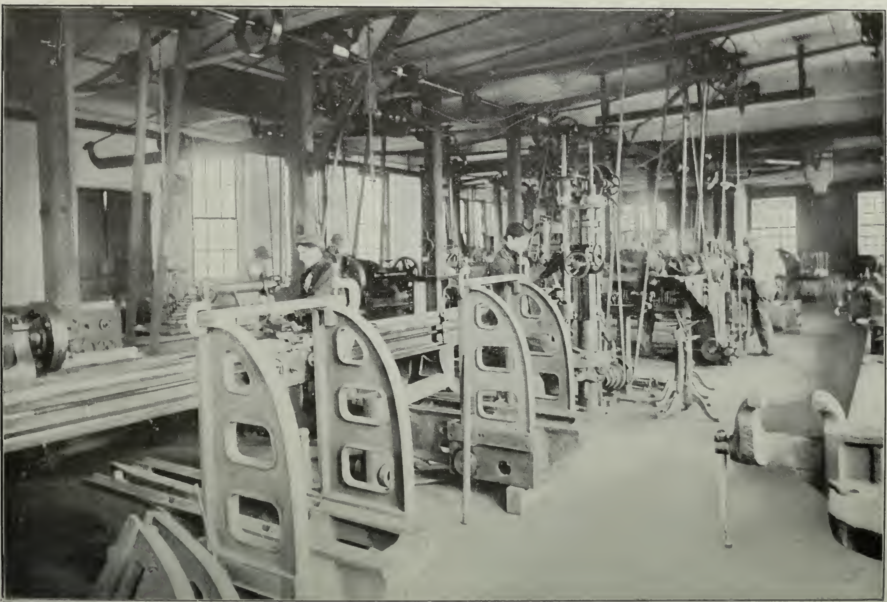
MACHINERY IN WOOD SHOP.



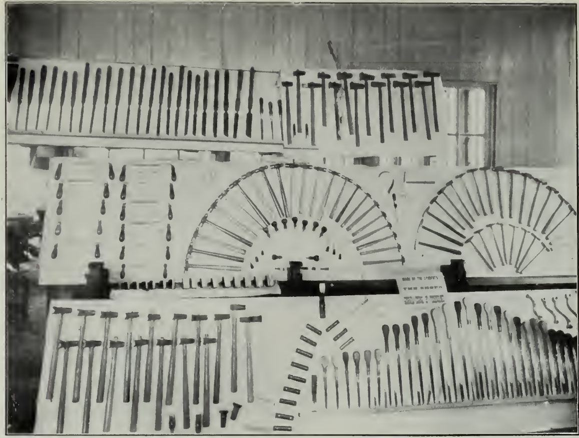
FURNITURE, ETC., MADE IN WOOD-SHOP.



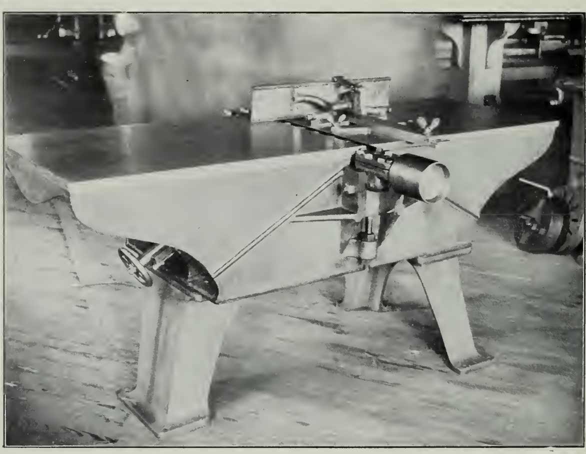
LATHES AND TOOLS MADE IN MACHINE-SHOPS.



IRON PLANERS IN PROCESS OF MANUFACTURE—MACHINE SHOP.



TOOLS MADE IN SMITH SHOP.



24-INCH BUZZ PLANER, MADE IN SHOPS.

tools made in the smithery, such as hammers, masons' and moulders' trowels and tools, turning-chisels, gouges, cold-chisels, swages, spawls, etc. The student also acquires skill in forging and dressing lathe and planer-tools; welding, tempering and annealing steel; the brazing and soldering of various metals, case-hardening, blueing, etc. It is to be distinctly understood that the student does not simply observe these operations as they are performed by a skilled artisan, but is required to acquire the handicraft himself, under expert instruction.

The machine-shop is well-equipped with lathes (two of which are very large ones), planers, grinding-tools, universal milling-machine with spiral attachment, shaping-machine, and a large assortment of small tools in a tool-room conducted strictly on the check-system. To this equipment we are constantly adding tools of our own manufacture, having added a 20-inch by 6-foot iron planer of our own design (upon which we received a silver medal at the Cotton States and International Exposition).

Beginners in this department of the shops are first given instruction in chipping and filing. The elementary tasks are of the usual manual-training school order, the first lesson being to chip and file a rough cast-iron block into a cube, with flat faces, sharp corners and right angles. Only a few lessons of this character are given, as it is felt that here, as elsewhere, the sooner the student can be put upon productive industry the better. It can not be successfully denied that a student takes more interest in work of a useful character than he does in a mere task. He can not be better taught to turn and grind round fits, scrape true, flat surfaces, and cut flutes and spirals in useful articles, parts of machine-tools, for instance, than in manual-training tasks to be cast into the scrap-heap.

Where the head of a department prefers, students in a course under control of that department will be confined to manual-training tasks in the machine-shop.

All work of whatever kind in all departments (excepting, of course, the foundry) is done to working-drawings. No haphazard, no chance, no "beginning at nothing and ending nowhere," is allowed. Under certain conditions students are allowed to work in the shop extra time on things for themselves. Work of this character must meet the approval of the head instructor; must be made to a working-drawing or a carefully prepared dimensioned sketch, and must be of a character to reflect credit on the student and possess intrinsic value. As work of this character, may be mentioned small steam-engines, electric generators, motors, etc.

Students are also instructed in the practical management of the shop steam-engines, boilers, firing, etc.

The following partial list may give some idea of the character and scope of the work done by the students in our shops; some of this work is now in process of construction:

For the Swann Dormitory, sixty-five iron beds, thirty-five oak washstands, sixty oak tables, fifty oak bureaus. Besides this a large amount of furniture for other departments of the School and also much that students have made for themselves and taken to their homes.

Twenty hand-looms for the Textile Department, besides a large amount of repair work. Over one hundred iron drawing-tables, and hundreds of drawing-boards, for the Department of Drawing.

A large number of tools in the smith-shop, such as moulders' tools, drawing-knives, carving-knives by the hundred, turning-chisels and turning tools for ourselves.

A fifty-horse-power engine, now driving our shops, made by ourselves entire, including drawings, patterns, castings and forgings.

Seven double emery-wheel stands.

Four 20-inch by 6-foot iron planers.

A 24-inch buzz planer.

A 12-inch buzz planer.

A power-geared pump for pumping all the water of condensation of our heating-plant back to boilers, boiling hot.

Fourteen wood speed-lathes.

Many electric generators, the largest a 10 K. W. for ourselves.

Many small steam-engines by students for themselves.

For Artisan course, see page 96.

DEPARTMENT OF ENGLISH.

The course in English begins with the Apprentice class, and extends through the Junior class, a period of four years.

The work of the department is required of all regular students, and its importance as the avenue of approach to all knowledge is kept constantly in mind. Particularly is its value to technical students recognized and enforced: first, as supplying the engineer with that equipment of direct, accurate, and vigorous expression necessary to his success in life; and second, as co-ordinating with his scientific training the equally important culture development which is justly demanded of the educated man of to-day.

The purposes of the course, then, are utility, which predominates in the first years; and culture, which is the chief end sought as the student progresses in his work.

It is to be recognized and stressed, however, that both purposes are considered fundamental and correlative, and are earnestly sought from beginning to end of the course.

As the institution has no separate department of Economics, a course in Economic Theory is given by the English Faculty.

Apprentice Class.

PROFESSORS JOHNSTON AND MCCULLOCH.

The work done in this class embraces the regular college entrance requirements in English, the class meeting five times a week throughout the year.

The first term is devoted to careful and systematic instruction in Grammar and Spelling, and to Macaulay's Johnson and

Shakespeare's Julius Caesar. In addition, theme work is begun, and careful instruction is by this means given in sentence-structure and in punctuation.

The second term completes the work in Grammar, and at this time much attention is given to analysis and parsing, and to further special practice in theme-writing. Macaulay's Addison, Milton's Minor Poems, and Burke's Oration on Conciliation with America complete the course in English classics.

Monthly declamations are required throughout the year.

Texts: Bartlett and McBain's English Grammar; Benson and Glenn's Practical Speller and Definer; Kimball's English Sentence; a text on Punctuation; various editions of the required classics.

General History will be studied by the Apprentice Class during the first term.

Freshman Class.

PROFESSORS WALLACE, PERRY, BOOGHER, AND MCCULLOCH.

For admission to this class, all the studies of the Apprentice year are required.

The work of the entire year is devoted to the study of Rhetoric, the class reciting four hours per week through the session. During the first term a constructive aspect of the subject is emphasized. Correctness in spelling and grammatical usage are regarded as fundamental. The structure of the sentence, the laws of the paragraph, and the forms of discourse, are presented to the student by precept and example. The student is required not only to master theory, but to practice what he has acquired, in writing weekly and bi-weekly themes, which are corrected by an instructor, who points out the error and its remedy, in an individual consultation, at stated intervals. The object of this course is to enable the student to express his thoughts in a correct and effective manner.

Texts: Hill's Principles of Rhetoric and Scott and Denny's Paragraph Writing are used as the basis of the course; it is supplemented by lectures, consultations, and a treatise on punctuation. The following prose works are read:

The Last of the Mohicans, Ivanhoe, Vicar of Wakefield, and Robinson Crusoe.

An appreciative phase of the subject is considered during the second term, when rhetorical principles are studied as a foundation upon which the superstructure of subsequent courses in literature may be reared. Analysis of classical selections, with regard to external and internal elements of beauty, aims to make this course practical.

Texts: Painter's Literary Criticism; selections from the English poets; and the following prose works are read:

Silas Marner, Kidnapped, Lorna Doone, The Last Days of Pompeii, and Tom Brown at Oxford.

Frequent declamations and debates are required throughout the year.

Sophomore Class.

PROFESSORS WALLACE, PERRY, AND BOOGHER.

The first term of the Sophomore year is devoted to the study of American Literature, the class reciting three hours per week through the term.

The course in American Literature is designed to give the student something more than a mere knowledge of facts about American letters; its aim is to give him an appreciation of the meaning and worth of the literature of America; to familiarize him with the masterpieces of American writers; and to cultivate in him a sound critical faculty.

To this end, emphasis is laid upon the study of American classics; and representative works of Irving, Cooper, Longfellow, Lowell, Emerson, Hawthorne, Holmes, and Poe are subjected to a careful analysis and interpretation in the class-room. This class-room study is supplemented by an introductory text, parallel readings, lectures from the instructor, and numerous appreciative criticisms from the student. Versification, also, is studied in the first term.

Texts: Pancoast's American Literature; various editions of American classics; Parson's English Versification.

The second term of the Sophomore year is devoted to the study of Economics.

The course in Economics attempts to equip the student with a working knowledge of the basic principles of Political Economy, to indicate and explain to him the laws that underlie the complex fabric of modern commercial and social systems, and to give him an intelligent apprehension of the nature and meaning of the great economic problems of the present age.

Essays and debates are required throughout the year.

Text: Bullock's Introduction to the Study of Economics.

Junior Class.

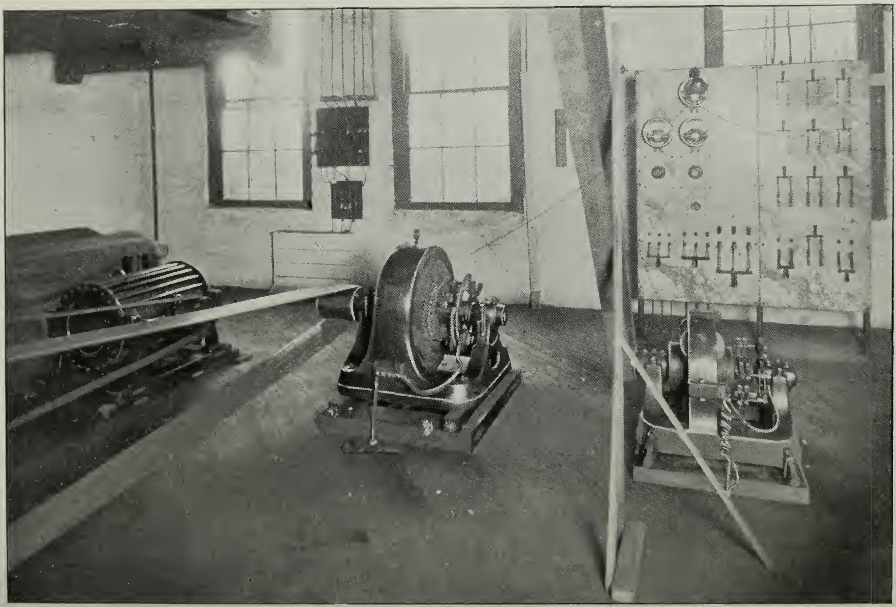
PROFESSORS WALLACE AND PERRY.

English Literature is required through the year, the class reciting three hours a week.

It is designed not only to give a brief history of the literature, but to cultivate an understanding and appreciation of what is best therein. To this end, careful and comprehensive study is made of the selected masterpieces of many English authors, and parallel readings are assigned on which written reports are required.

The instructors give frequent lectures on the subjects considered; and, in general, literature is regarded and treated as of value, not simply as a study, but as a part of life.

Texts: Moody and Lovett's History of English Literature; Gayley and Young's Principles and Progress of English Poetry; various editions of English prose classics and of Shakespeare's plays.



POWER PLANT FOR ELECTRICAL DEPARTMENT.

STUDENTS AT WORK IN THE ELECTRICAL LABORATORY.

DEPARTMENT OF ELECTRICAL ENGINEERING.

This department has for its object the training of men for positions in industrial engineering where a thorough acquaintance with the processes of applied electricity is required.

The course in Electrical Engineering is planned to give a broad outlook in engineering, and is closely articulated with the fundamental sciences of Chemistry, Physics, Mathematics, and Mechanics. The scientific and applied aspects of the several important branches of engineering other than applied electricity (including surveying, steam engineering, machinery design, hydraulics, constructive materials), are given adequate attention; and thorough instruction in the essential scientific elements of the branches of applied electricity, which are now of inestimable importance to the industrial engineer, are added thereto.

The aim of the course is to produce industrious, clear-thinking young men who are furnished with the scientific and practical equipment necessary to the successful practice of their profession as electrical engineers.

The department occupies the second floor of the Electrical building and a part of the shop.

The power-plant is located in the shop and consists of an Atlas engine belted to a 17 1-2 K. W. 110-volt Triumph generator and a 9-light Thomason-Houston arc light generator; with a 6.6 K. W. 110-volt General Electric generator belted from the shop-line shaft. The machines are used to furnish currency for lighting the various buildings and power for the Electrical laboratory.

The Electrical laboratory is located on the second floor of the Electrical building, and contains the following machines: A 10 K. W. double-current generator, built in the School shops, capable of supplying either direct, two-phase or three-phase currents; a 5 K. W. 110-volt shunt generator, built in the

School-shops; a 6 H. P. 110-volt Commercial series motor; a 5 K. W. 110-volt three-phase Ideal alternator; a 5 H. P. 110-volt three-phase General Electric induction motor; two 6 K. W. 125-volt Edison compound generators; a 5.6 K. W. 125-volt Westinghouse motor generator set; a 10 H. P. 110-volt Stow motor; a 2 K. W. Watson booster set; two 3 K. W. transformers arranged for phase transformation; several 1.5 K. W. transformers; an 11 M. F. adjustable condenser; a complete switchboard and the necessary instruments for the complete testing of the above machines.

Besides the above, the department has for testing purposes two telephone sets; complete sending and receiving sets for wireless telegraphy, and other small apparatus. Vats will soon be completed so that practical exercises in electroplating, electrotyping, and allied subjects can be made a part of the laboratory work.

Besides the technical subjects, including Drawing, Mechanics of Materials, Chemistry, Steam Engineering, Surveying, Hydraulics, shop, etc., which are required of students taking this course, the following subjects are given in this department:

1. DYNAMO ELECTRIC MACHINERY.—(a) This course is designed to give the theory of direct current machinery and the knowledge necessary for its selection, operation, and management. Four hours per week during the second term for Electrical Engineering Juniors. (b) This course follows that in direct current machinery and is an extended course upon alternating currents and alternating current machinery, and their applications. Five hours per week during the first term for Electrical Engineering Seniors.

2. ELECTRICAL LABORATORY.—An experimental study of the apparatus discussed in Course 1. Tests of various kinds are made in order that the student may become familiar with the use of electrical instruments and the operating characteristics of different classes of machines. Four hours per week throughout the year for Electrical Engineering Seniors.

3. Electrical Design.—A study of the design of various types of apparatus; each student being required to make a complete design of one or more machines. Four hours per week throughout the year for Electrical Engineering Seniors.

4. Electric Lighting.—A study of the various circuits, appliances and methods used in electric lighting. Two hours in the first term for Electrical Engineering Seniors.

5. Telephone and Telegraph.—A study of the various telephone and telegraph systems now in use. Two hours per week during the first term for Electrical Engineering Seniors.

6. Electric Power Plants.—A course on the design, operation, and management of electric power plants. Five hours per week during the second term for Electrical Engineering Seniors.

7. Current Engineering.—This course is given as a seminar, and consists of a review of the current engineering periodicals with a discussion of the principal articles therein, besides papers prepared and delivered by the students, on assigned subjects, including those of factory and central station management, electric railways, etc. One hour per week in the second term for Electrical Engineering Seniors.

8. Electric Railways.—This course takes up the road-bed, rolling stock, electric circuits, and power plants. Also location, construction, and operation. Two hours per week during the second term for Electrical Engineering Seniors.

9. Electric Power Distribution.—A study of the elements of dynamo electric machinery, with the application of such machinery to the electrical distribution of power. Three hours per week in the class-room, and three hours per week in the laboratory during the first term for Mechanical Engineering Seniors. Three hours per week during the second term for Civil and Textile Engineering Seniors and Engineering Chemistry Seniors.

10. Thesis.—The purpose of the thesis is to develop the power to carry out independent investigation; therefore, the subject chosen should be one in which the student takes an in-

terest, and should be within his ability to complete in a satisfactory manner. The subject should be chosen early in the first term, so that the literature on the subject may be looked up before the beginning of the second term, when the experimental work, if any, should be commenced.

The class-rooms are well equipped with models and samples for use in explanations and lectures.

Trips are taken to electric light and power stations and to manufacturing plants to enable the student to become familiar with actual operating conditions.

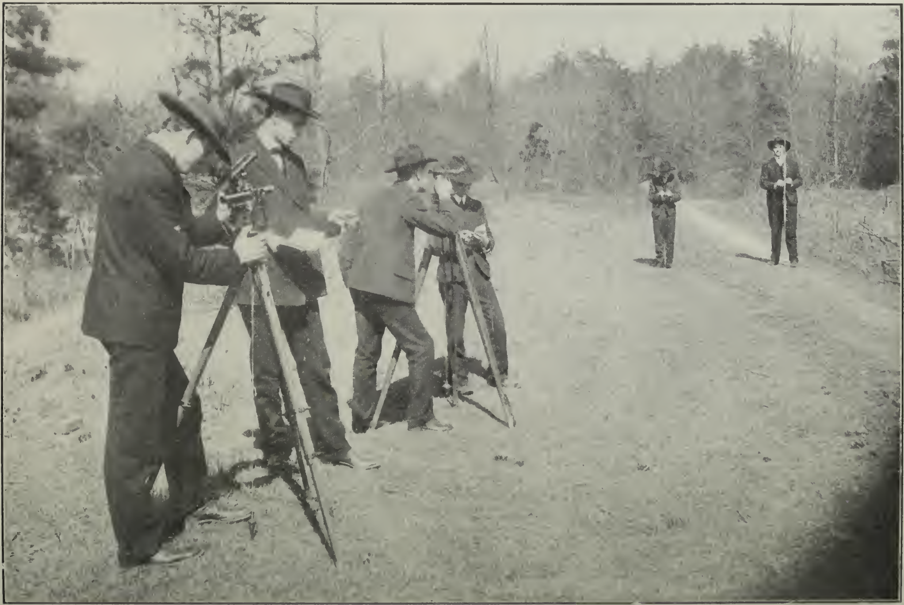
The Library shelves of the School contain a considerable number of works on electrical engineering, besides receiving twelve different electrical and semi-electrical perodicals. The Carnegie Library of the city of Atlanta also contains a large number of volumes of great value to electrical engineers, and is open to our students.

DEPARTMENT OF CIVIL ENGINEERING.

Professors Branch and Jackson.

In this department the constant effort is made to combine theory and practice, and to make both conform to the best of modern practice. The student does just such work as will be required of him when he enters upon his professional work. Special attention is given to the problems likely to occur in the early years of his career, the details are carefully worked out and the misty points made clear. In this way the services of the graduate are made valuable to the employer as early as possible.

The course in Steam Engineering is intended to familiarize the student with the various types of engines, boilers and pumps; to determine what one will best meet the requirements of the work he has in hand, and to test its efficiency. The course in Power Transmission renders the student familiar



DETERMINATION OF A MERIDIAN WITH SARGMULLER AND SHATTUCK ATTACHMENTS.

PRACTICE WITH LEVELS.

PLANE TABLE WORK WITH STADIA.

with the structure, working and testing of electrical machines. He is able to select and test the machine needed for the plant he is designing.

We have for this work four Y-levels, one engineer's transit with Saegmuller solar attachment, one plane-table, with telescopic alidade arranged for stadia, one complete compass, one aneroid barometer, one Thatcher slide-rule, one sextant, one planimeter, pedometers, chains, tapes, rods, etc. We have a collection of valuable designs of existing structures and this is being constantly added to. The studies of this department are:

1. SURVEYING.—(a) Plane Surveying: Structure, and use of field instruments and their application to land surveying and road making. The student is taught to make the survey and map, and to compute the area. He learns to run the level, make profiles, lay the grade on them and calculate the cuts and fills.

(b) Road and Railroad Surveying: The location, construction and maintenance of roads, railroads, street pavements and canals. This includes practice in running the lines, putting in spirals, staking out the work, computing quantities, determination of the meridian, etc.

(c) Topographical and Geodetic Surveying, with the application of the stadia and plane table.

2. MECHANICS.—(a) Analytic Mechanics, theoretical and applied (see Experimental Engineering).

3. HYDRAULICS.—(a) Theoretical Hydraulics, the laws of statics and dynamics of fluids, the flow of water through orifices, weiros, conduits and pipes, and the determination of the horsepower of the water delivered to the motor.

(b) Hydraulic Machinery.—The principles of the design of Pelton wheels, turbines, etc.

4. The application of Graphical Analysis to the solution of the problems of all subjects taught. This is carried through all the work of the department.

5. Mechanics of Materials and Materials of Engineering (see Mechanical Engineering).

6. Steam Engine and Boilers (Experimental Engineering).

7. Electric Power Transmission (Electrical Engineering.

8. Civil Engineering.—(a) Masonry Structures, walls, arches, dams, buildings of stone, concrete and reinforced concrete.

(b) Framed Structures.—Calculation of stresses in roofs, trusses, bridges, buildings, towers and tanks. The detailed design of the structures of wood, steel, etc., to meet these stresses.

(c) Municipal Engineering.—Streets and pavements, water supply, sewerage and its disposal.

For outline of course see page 87.

In the Sophomore year, students are urged to elect Qualitative Chemical Laboratory.

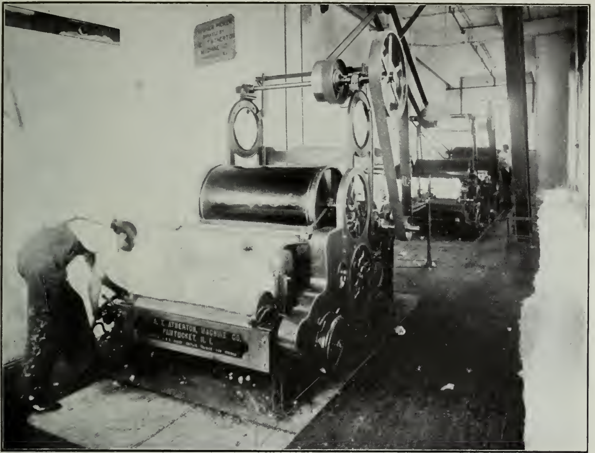
9. Thesis.—The student is urged to select a subject in the line of work which he intends to follow. He will not be permitted to attempt more than can be thoroughly done within the limits of the available time. The problem is to be worked out thoroughly and the results ready for lay-out on construction.

TEXTILE DEPARTMENT.

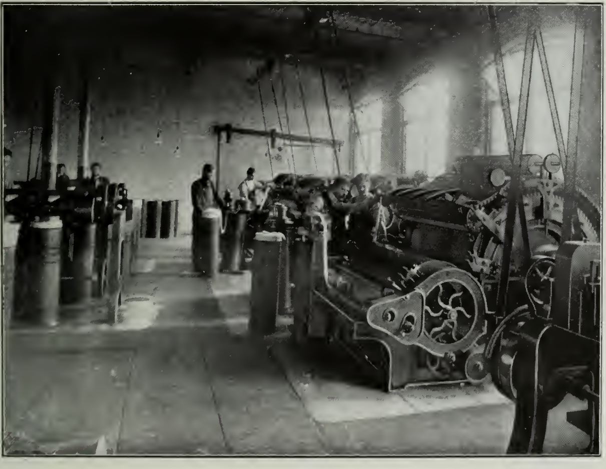
The A. French Textile School.

This department offers unexcelled advantages to the young man who intends entering the textile industry. We believe that the student, on graduating, should have a sound foundation in engineering subjects as well as in the branches relating directly to the textile trade.

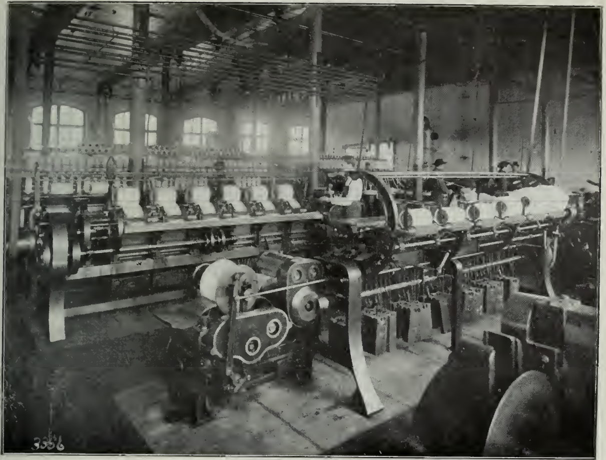
We therefore include, besides the usual subjects given in textile schools, such as Carding, Spinning, Weaving, Designing, and Dyeing, extensive courses in Mathematics, English, Chemistry, Physics, Mechanism, Mechanics, Drawing, strength of



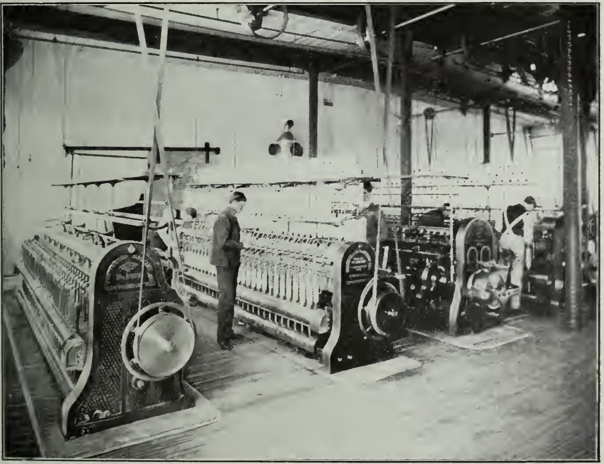
PICKER-ROOM—TEXTILE DEPARTMENT.



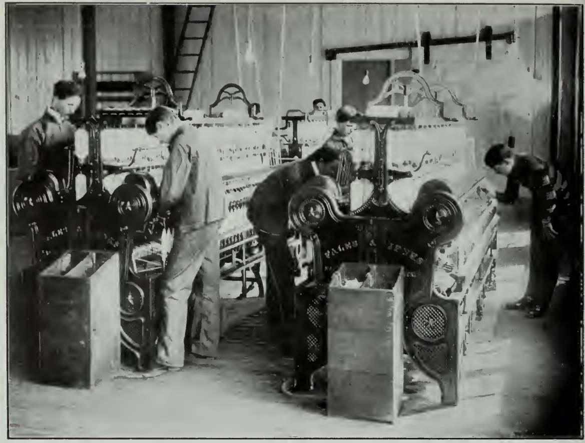
REVOLVING FLAT-CARDS. DRAWING-FRAMES, ETC.



COTTON COMBING AND PREPARATORY MACHINES.



FLY FRAMES IN CARD-ROOM—TEXTILE DEPARTMENT.



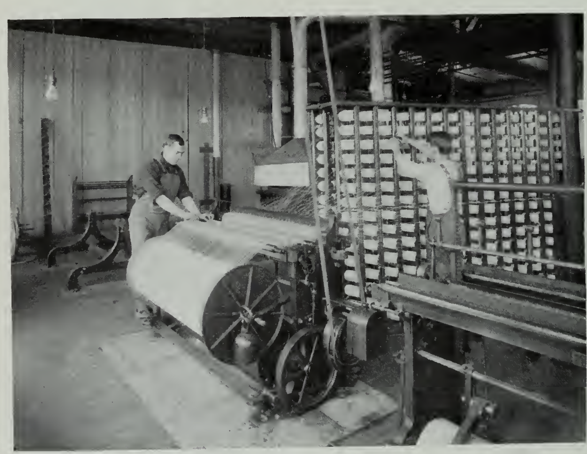
PRACTICE IN RING SPINNING.

PRACTICE IN MULE SPINNING.

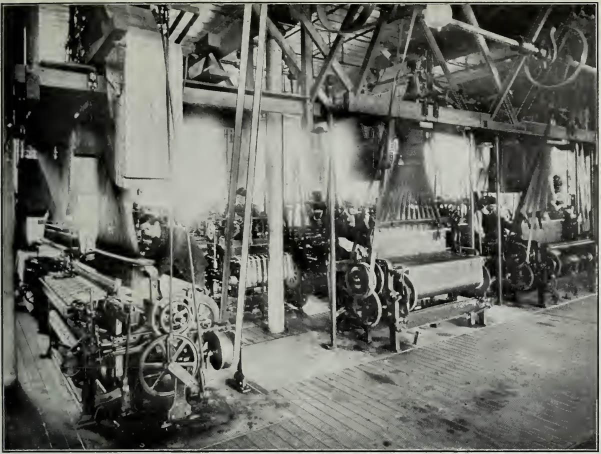
PRACTICE SPOOLING COTTON YARNS.

REELING, WINDING AND TWISTING—TEXTILE DEPARTMENT.

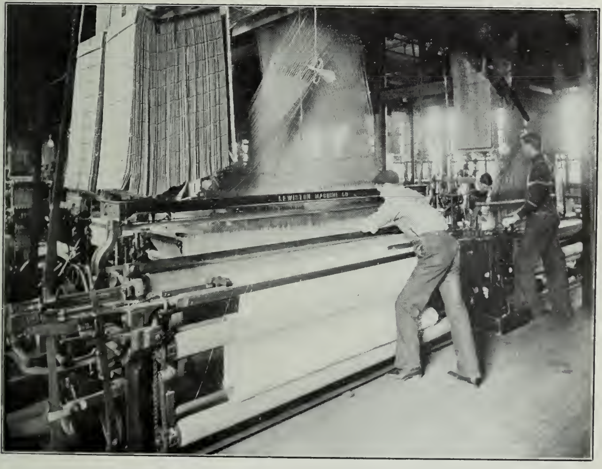
VIEW IN DYE-HOUSE, TEXTILE DEPARTMENT.



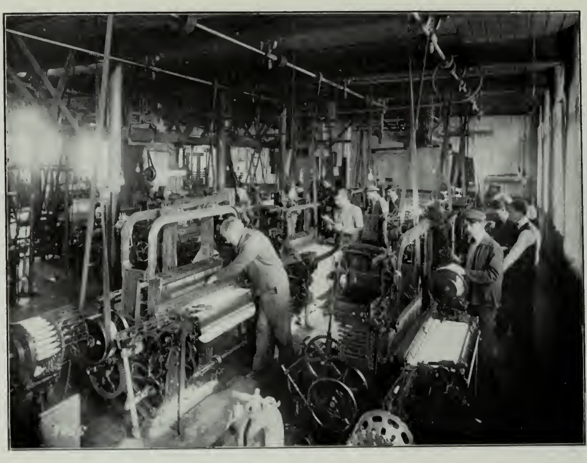
PREPARATION OF WARPS FOR WEAVE-ROOM.



PRACTICE IN JACQUARD WEAVING—TEXTILE DEPARTMENT.

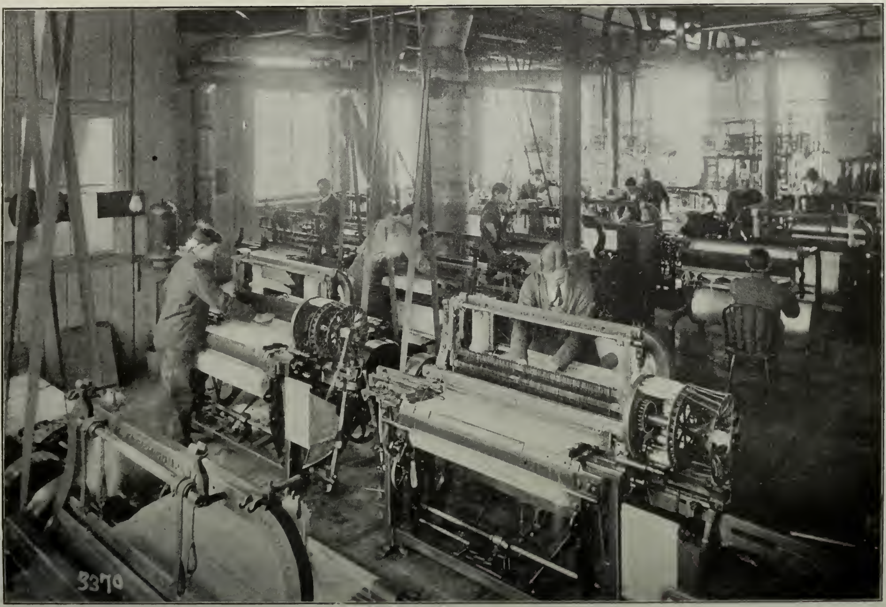


PRACTICE IN JACQUARD WEAVING—TEXTILE DEPARTMENT.

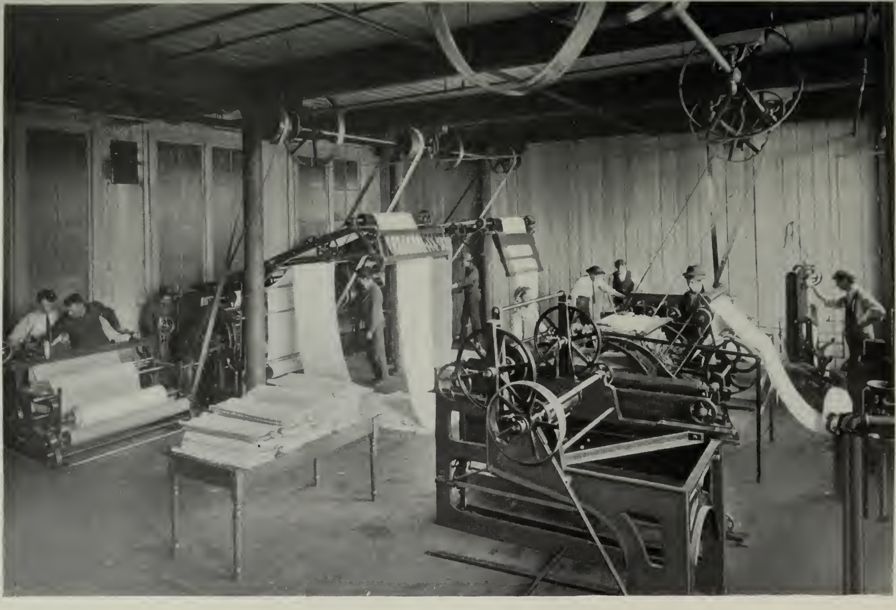


CORNER OF WEAVE-ROOM SHOWING DOBBY LOOMS.

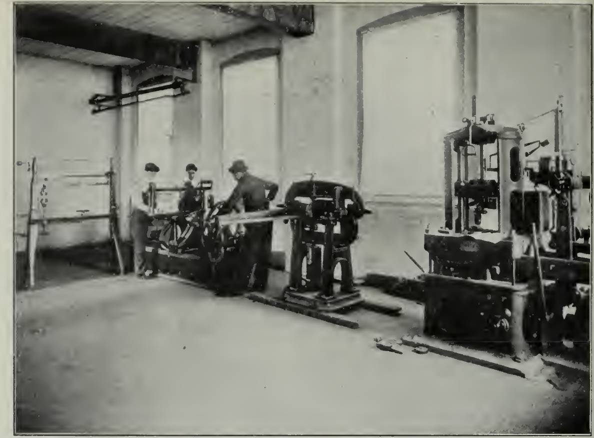
TEXTILE CLASS IN JACQUARD DESIGN.



PLAIN LOOM WEAVING—TEXTILE DEPARTMENT.



CLOTH FINISHING EQUIPMENT.



TESTING MACHINES.

IN THE ASSAYING LABORATORY.

materials, steam-engine, electrical work, mill construction, and shop-work.

The course not only covers the theoretical side of the different subjects, but is extremely practical. For example, with a few exceptions where very fine or fancy yarns are required, we make and dye all the yarn used in the weave-room. This yarn and the cloth produced must be up to mill standards, as it is placed on the market and sold. We believe that no other textile school is run on such a practical basis.

During the second term the Senior class is usually taken on a week's trip to some manufacturing center, where the different systems used in the mill and power-plants are thoroughly studied.

BUILDING AND EQUIPMENT.

The Textile building is a splendid example of architectural skill in modern mill construction. It is equipped with complete systems of heating, ventilating, electric lighting, humidifiers, automatic sprinklers, and, in fact, all apparatus and appliances found in the modern mill.

Great care has been exercised in selecting the equipment, which is the most complete in the world for education in the different branches of cotton manufacture. Several makes of each kind of machine have been installed, thus enabling the student to become familiar with most of the prominent makes now in use.

The equipment consists of:

The Sturtevant system of heating and ventilating, made by B. F. Sturtevant & Co., Boston, Mass.

Complete equipment of automatic fire-sprinklers, from the General Fire Extinguisher Co., Providence, R. I.

System of humidifiers, from the American Moistening Co., Boston, Mass.

Entire equipment of shafting, hangers and pulleys, from Jones & Laughlin, Pittsburg, Pa.

CARDING DEPARTMENT.

Ginning.—One Winship Cotton Gin Feeder; one Winship 60-saw Cotton Gin; one Winship Condenser.

Pickers.—One Kitson Automatic Feeder; one Kitson Single Beater Combination Breaker and Finisher Lapper with Clarke & Perham's evener; one Atherton 40-inch Single Beater Finisher Picker complete; one lap scale.

Cards.—One Saco-Pettee 40-inch Revolving Flat Card; one Whitin 40-inch Revolving Flat Card; one Howard & Bullough 40-inch Revolving Flat Card; one Lowell 40-inch Revolving Flat Card; Grinding, Stripping and Burnishing Rolls—complete set carder's tools.

Combing.—One Dobson & Barlow Sliver Lap machine; one Whitin Sliver Lap machine; one Whitin Ribbon Lap machine; one Whitin Combing machine; one Dobson & Barlow Combing machine; one Percentage Scale for comber.

Railway.—One Saco-Pettee Railway Head with evening motion and metallic rolls.

Drawing.—One Saco-Pettee Drawing Frame, 4 deliveries and metallic rolls; one Whitin Drawing Frame, 4 deliveries, and metallic rolls; one Sliver scale.

Fly Frames.—One Woonsocket Machine and Press Co.'s Slubber, 32 spindles, with Daly's improved differential motion; one Woonsocket Machine and Press Co.'s Intermediate, 42 spindles, with Daly's improved differential motion; one Saco-Pettee Machine Co.'s improved Intermediate, 44 spindles; one Saco-Pettee Machine Co.'s Fine Roving Frame, 72 spindles; one Woonsocket Machine and Press Co.'s Fine Roving Frame, 64 spindles, with Daly's improved differential motion; one Providence Machine Co.'s Fine Roving Frame, 64 spindles; one Saco-Pettee Machine Co.'s Jack Frame, 96 spindles; one Roving Reel and Scale; two Laminar Fibre Co.'s roving trucks.

SPINNING DEPARTMENT.

Ring Spinning.—One Fales & Jenks combined warp and filling frame, 80 spindles; one Fales & Jenks filling frame, 80 spindles; one Whitin combination warp and filling frame, 64 spindles; one Saco-Pettee Machine Co.'s combination warp and filling frame, 160 spindles; one Howard & Bullough Combination Warp and Filling Frame, 160 spindles.

Mule Spinning.—One Mason Spinning Mule, 360 spindles, 1½-inch gauge; one Yarn Balance and Reel; one Yarn Testing machine for stretch and strength.

Twisting.—One Draper Twister, 128 spindles; one Draper Twister, 32 spindles; one Fales & Jenks combination warp and filling wind Twister, 80 spindles; one Howard & Bullough Twister, 128 spindles; one Twist Counter; one Weeks banding machine.

Spooling.—One Easton & Bernham Spooler, 24 spindles; one Draper Spooler, 40 spindles; one Whitin Spooler, 60 spindles; two Barber & Colman Knotters; one Fairmount Drum Spooler.

Winding and Reeling.—Two Universal Winding machines, 7 spindles; one Fairmount Bobbin Winder, 12 spindles; one D. A. Tompkins Co.'s Adjustable Reel, 50 spindles.

WEAVING DEPARTMENT.

Warping.—One Entwistle Beam Warper with creel; one Entwistle Beaming Machine, with tension drums; one Draper Beam Warper with creel; one Draper Ball Warper with creel; one Cole Bros. Beaming Machine.

Slashing.—One Lowell Cylinder Slasher, 6 beam creel; one Lowell Size Kettle; one Lowell Size Pump.

Hand Looms.—Hand Weaving Room, with thorough equipment of hand bobbin winders, warping pins, hecks, drawing-in frames, and 24-hand looms with 30-harness dobbies, 4 shuttles, 4 beams, let-off and take-up motion, etc.

Power Looms.—One 36-inch Colvin Plain Loom; one Northrop-Draper Print Cloth Automatic Loom; one Northrop-Draper 5 Harness Automatic Loom; two Northrop-Draper 36-inch Sheeting Looms, automatic; one Lewiston Machine Co.'s Pillow-case Tubing Loom, with attachment for weaving plain goods; one Lewiston Machine Co.'s 36-inch Plain Loom; one Whitin Plain Loom; one Mason Plain Loom; one Lowell Print Cloth Loom; one Kilburn-Lincoln Plain Loom; one Mutual Machine Co.'s Turkish Towell Loom; one Mason 32-inch Gingham Loom, 4x1 box, and 2, 3 and 4 leaf under cams; one Crompton Gingham Loom, 6x1 box, and 2, 3 and 4 leaf under cams; one Mason Dobby Dress Goods Loom, single box, and 20 harness for 2 and 3 beam work; one Crompton Dobby Dress Goods Loom, 4x1 box, and 20 harness for 2 and 3 beam work; one Knowles Cotton Dobby Loom, single shuttle and 20 harness for 2 and 3 beam work; one Knowles Leno Loom, 4x1 box, multiplier, easing rods, 25 harness, double cylinder, for 2 and 3 beam work; one Crompton Dobby Loom, 4x1 box, multiplier, 25 harness, double cylinder, for 2 and 3 beam work; one Knowles "Gem" Loom, 4x4 box, multiplier, 20 harness, left-hand for 2 and 3 beam work; one Knowles "Gem" Loom, 4x4 box, multiplier, 20 harness, right-hand for 2 and 3 beam work; two Draper Dobby Looms, with magazines; one Crompton-Thayer Dobby Loom; one Fairmount Dobby Loom, 4x1 box, 16 harness, for 2 beam work; one Fairmount "Ingraham" Harness Motion and Loom, 4x1 box, multiplier, 20 harness, for 2 beam work; one Crompton-Knowles Upholstery Loom, with 600 hook, double lift, single cylinder, Jacquard machine; one Crompton-Knowles Upholstery Loom, with 400 hook, single lift, single cylinder, Jacquard machine; one Kilburn and Lincoln Dress Goods Loom, with 400 hook, rise and fall, rotary cylinder, Schaum & Uhlinger, Jacquard machine; one Stafford Hammock Loom, with 200 hook; single lift, single cylinder, Jacquard machine; one 11-4 Lewiston Quilt Loom, 2x1 box, 1,200 hook, double lift, double cylinder, Halton Jacquard machine; one Crompton Damask Loom, 4x1 box, with

600 hook, double lift, double cylinder, Halton Jacquard machine; one French Index Royle's Power Card Cutter; one French Index Royle's Foot Card Cutter; one French Index Schaum & Uhlinger Card Cutter; one Royle's Card Lacing Frame.

FINISHING.—One Curtis & Marble Railway Sewing Machine; one Curtis & Marble Brushing and Calendering Machine; one Textile Finishing Machine Co.'s Cloth Drying Machine; one Elliott & Hall 40-inch Cloth Folder; one Windle Doubling and Winding Machine, with measuring attachment; one Parks & Woolson French Napper; one American Napping Machine Co.'s French Napper.

KNITTING DEPARTMENT.

One Branson 7-8 Automatic Knitting Machine; one Scott & Williams Single-lever Automatic Shirt Body Machine; one Scott & Williams Tucker Sleever; one Scott & Williams Automatic Welter.

DYEING DEPARTMENT.

One Dry Room; two Dye Vats, 2x3 feet, regulation depth; one Bleaching Box and Scouring Vat and Pump; one Buttersworth Steam Cylinder, for steaming yarns and cloth; one complete set Thos. Phillips Copper Measures; one Thos. Phillips Patcher Steamer; one Granger Jigg Dyeing Machine; one Schaum & Uhlinger Self-balancing Engine-driven Hydro-Extractor; one Berry Ventilating Wheel; one Klauder-Weldon Raw Stock Dyeing Machine; one Klauder-Weldon Skein Yarn Dyeing Machine; one Textile Finishing Machinery Co.'s Chain Warp Dyeing Machine; one Draper Winding-on machine; one Draper Winding-off machine; one Textile Finishing Machinery Co.'s Chain Warp and Cloth Drying machine.

The Dyeing Laboratory is fitted up complete for experimental dyeing analysis, etc. Students have access to our splendid collection of dyestuffs, which is, we believe, the most complete in the United States.

FIRE PROTECTION.—One Fales and Jenks Iron Rotary Fire Pump; complete system of automatic fire-sprinklers; fire pails.

HUMIDIFIERS.—Complete system of "Drosophore" and "Vortex" Humidifiers and Pump, with connections, donated by the American Moistening Co.

POWER.—One Hundred-H. P. Boiler, donated by Thayer & Co.; one 60-H. P. Corliss Engine, from the Lane & Bodley Co.; Shafting, Hangers and Pulleys, donated by Jones & Laughlin.

Department of Textile Design.

FABRIC STRUCTURE.

The study of the above subject includes fundamental principles of the structure of fabrics; classification of fabrics; "balance of cloth" necessary to give the maximum of wearing qualities and best general appearance; economical construction; texture calculations; for "solid" weaves; for "combination" weaves; take-up in weaving; its relation to the different combinations of textures and weaves; examples of weaves which take up warp and filling at different rates; influence of twists on the appearance of the fabric; influence of the texture on the appearance of the weave in the fabric; examples of fabrics in which it is more suitable to use one class of weaves than others; influence of twists on textures; proper textures for single cloth; finding the diameter of yarns; calculating textures by diameters and interlacings.

Proper textures for double cloth, triple cloth; textures for fabric in which the layout of warp and filling are unequal; changing textures from one weave to another; methods of increasing or decreasing the weight of fabrics without affecting its general appearance; system of adding an extra warp or an extra filling; stitching the same; stitching fabrics in which the layout of warp and filling is different. Stitching double cloths, triple or more ply cloth.

Method of stitching a silk stripe or plaid on a plain cotton fabric. Stitching fabrics after a motive for the purpose of ornamentation. The uses of stuffer-fillings and warp and the manner of their introduction into the fabric.

FABRIC DESIGN.

Includes the formation of fabrics by interlacing threads introduced at right angles; method of representing the interlacing on "square" or "point" paper; the terms "warp," "filling," "raiser," "sinker," "weave," etc., explained; planning the weave; the three foundation weaves; the plain or cotton weave; producing fancy effects on a plain weave foundation; color effects representing the same on point paper; derivative weaves; plain and fancy basket weaves; warp, filling and oblique ribs; planning drawing-in drafts and chain-drafts on paper; reducing weaves to their lowest number of harness.

TWILLS.—Common twills; representing color effects on twilled grounds; derivative weaves; broken twills; pointed twills; fancy pointed twills; plain and fancy skip twills; steep and reclining twills; entwining twills; curved twills; cork-screw twills; fancy twills; double twill effects; shaded twills; fancy ground weaves on twill foundation; fancy effect in twill combinations.

SATINS.—Warp and filling effect; double satin; broken satin; satins broken after motives; ground weaves on satin foundation; fancy effects in broken satins; satin granite weaves; fancy granites; satin shading.

The above weaves enable the student to know the origin and application of all the simpler weaves used in the designing of all classes of textile fabrics. The following are also given:

Spot and stripe weaving; plain fancies and brilliant; fancy satin stripes on plain ground; other combinations of the plain weave with satins and twills; the various imitations of leno or gauze weaving; satin stripes; fancy ground weaves, derived from twills by combinations; honey-comb weaves; madras combinations; floating warp for same; Bedford cords and their combinations; huck and "Turkish" toweling; fabrics consisting of one or more systems of warp interlacing with one or more systems of filling; double and triple cloths as applied to very heavy cotton fabrics; stuffer warps and fillings; double plains; figured double and triple plains; figured dress-goods using an extra warp or filling for ornamentation; double-faced or figured reversible fabrics; seamless bags; method of stitching in the sides and bottoms of bags; plain piques or "welts;" fancy piques; piques as applied to Marseilles quilting; combinations of single and double plains in dress-goods; other "novelty" weaves; methods of stitching a silk stripe or plaid on a cotton fabric; pile fabrics, cut and uncut; cotton specialties, swivel spots; lappet designing; principles of gauze weaving; doups and easing-rod; standard skeleton and ground harness; leno effects; plain and fancy gauze in the same fabric.

FABRIC ANALYSIS.

Includes yarn calculation leading to, and preparatory to analysis; standards of yarns; systems of numbering; obtaining the "count;" counts of single and doubled yarns; grading two, three, four or more ply yarns; standard woolen, worsted, silk and linen yarns; determining the counts of these yarns in the cotton system of numbering; weight, count and yard calculations; estimating qualities and cost of the minor threads in making fancy twists; contraction in twisting equal or unequal minor threads; obtaining the resultant counts and cost of the same; counts of minor threads necessary to produce a desired count; estimating the cost of woven fabrics; drafting and chain building; finding apparent cost per yard finished; reed, heddle and harness calculations.

The instruction in the Junior year is carried along the above lines, the object being to make the student familiar with the rules and best system of cloth analysis. He is furnished with samples of all grades of cotton fabrics and his analysis of the same must be complete and thorough in every respect.

On the completion of this year's work the student should be able to analyze and reproduce any sample of cotton goods submitted to him, given the necessary machines and materials.

THE JACQUARD MACHINE.

The instruction relating to this machine includes its history and development; relation to harness machines; its method of producing ornaments; analysis and description of its principal parts.

Locating the number one needle on the machine; French index; fine index; analysis and drawings of the vital parts of the single lift, single cylinder, raise and drop; double lift, single cylinder; special machines, showing their internal mechanism; the tie-up; English system—front cylinder, back cylinder; French system—left cylinder, right cylinder; description and uses of the leashes, couplings, mail, lingo, etc.; the comber or "compart" board; sectional; solid; threading from the front and from the back.

Tracing effects of "raisers" and "sinkers" on the design through pattern-cards and machine to the fabric; drawings of straight-through and point tie-ups; journals and journal tie-ups; tie-ups for gauze weaving; slackening mechanisms and other motions necessary in doup work; running tie-ups in connection with harness-work; tie-up calculations.

JACQUARD DESIGNING.

Includes the methods of producing ornament by mechanical means; laying out designs for economical production; original sketches in fabric size; distributing forms on original sketches, so as to produce symmetrical effects; "all-over" effects, "stripe" effects, "checker-board" and "diagonal" effects; selection of proper designing paper in regard to texture to be employed; determining the number or hooks to be used, number of ends in a repeat and the number of repeats; enlarging and reducing sketches by the "square" system to the area to be occupied on the designing paper; transferring the pattern to design paper; painting in the sketch; stitching warp and filling floats by means of satin, twill and random stitches; indicating the ground weave; locating the number one, its influence on the directions of twills by its position on the comber-board; shading forms by satin and by twills; making complete designs for straight-through and center-point tie-ups as such, and in their various combinations; ruling paper for card stamping; card stampers' instruction; stamping so as to make the load in weaving as light as possible; fabrics woven face up; fabrics woven face down; cutting and lacing cards; analysis and reproduction of Jacquard patterns; two or more ply Jacquard cloths; method of representing the various warps and fillings on design paper; color in Jacquard design; card stamping on reduced textures; complete designs for quilts, spreads, fancy table coverings, damask and other Turkey reds, dress-goods, vestings, curtains, towelings, lap-robes, hangings, upholstery, etc.

Department of Carding and Spinning.

CARDING.

The study of the cotton fibre, including botanical classification of cottons; location of the more important cotton-producing districts; primary species peculiar to each; Egyptian, Brazilian, Peruvian, Arabian, Indian and other cottons, commercial names and comparative values; spinning properties and suitability for the different yarns; American cotton, Sea Island, Orleans, Uplands; commercial grading and classification; the chemical and physical properties of cotton.

Ginning.—History and development of the processes now in use; the roller-gin, as applied to the long-staple cottons; its construction and principle of extracting the seed; the rollers, beater, knives; feeding mechanism; proper speeds; setting the parts; their action on the fibre; merits of the roller-gin; the saw-gin; its construction and principle of extracting the seed; pneumatic conveyers used in connection; various feeding mechanisms; the apron, rollers and guard; setting, speeding and operating the parts; action of the saws; grate, brush and condensers; different systems of packing the bale; square bale; cylindrical bale; compressing; commercial handling; buying cottons; points to be considered; detection of moisture and other impurities; methods of handling and drying out damp cotton; selection of grades most suitable for various yarns.

Mixing.—Its object, necessity of; merits of the different systems employed in laying out mixes; proper method of building and pulling down mixes; blending stocks; proportioning grades; examination of lengths and diameters of the fibres; color, cost, waste and production considered; trial mixes; records of percentages of waste; comparative tests for strength and for economical production; spinning qualities considered; the bale-breaker, its action, capacity, cost and construction; mixing calculations; pneumatic conveyors; their construction and use; airing and aging cotton before working; precautions against fires; automatic fire extinguishers.

The Picker Room.—Arrangement of pickers and dust-trunks; forms of dust-trunks; automatic feeds; mechanisms for regulating the feed; production and cost; the pickers; breaker; intermediate; finisher; the cost, capacity and operation of each; their action and method of opening and cleansing the cotton; analysis and description of their working parts; setting and speeding; air current; dust-trunks; feed-rolls; beaters; girds and bars; dust cages; method of forming the laps; compression rolls; winding mechanisms; automatic measuring and stop motions; beaters; beater speeds and bearings; bar beaters; frail beaters; porcupine beaters; evening motions; the piano feed; its methods of evening the feed; construction and principle of operation; other evening motions; lap changes and calculations; miscellaneous instruction; general practice on the machines.

Carding.—Its history, growth and development; the principle of carding; types of carding-engines, roller cards; stationary-top flat cards; revolving-top flat cards; the production, cost, construction and merits of each of the above systems; methods of setting; draughts and change gears; percentage of waste; calculating productions; stripping motions and appliances; turning up and clothing cylinders; clothing flats, card-grinding frame, traverse roll and flexible strickle; grinding flats, cylinders, workers and strippers; needle, diamond, plough and hooked points on card wire; clothing flats and cylinders; carding, both white and dyed stock; lap machines and combs; their action and operation explained; railway heads; systems of drawing with and without railway heads; their combination with section carding; independent heads; chain, screw and other evening motions; their construction and use; draught rolls; leather-top rolls; metallic rolls; draught calculations and change gears; stop-motions; the coiler; its construction and use; drawing and weighting; leather rolls; metallic rolls; stop-motions; production and cost of the machines; the one-frame, two-frame and three-frame processes; leather rolls, metallic rolls; stop-motions; their mechanical principles; suitable draughts for the various slivers; calculating draughts and draught-change gears; productions of the drawing frame; practice on the machines; the fly frames; slubber, intermediate, roving and jack frames; the principles involved and the construction of the modern machines; their history and development; their mechanism explained; drawings of their vital parts; the draught rolls; their setting and use; building the bobbin; the flyer leading; the bobbin leading; the builder rail; the differential motion, kinds, its action; drawings of, analyzed and described; the tension and lay change gears; draught and twist changers on slubbers; intermediate, roving and jack frames; productions; calculating the same; proper speeds; setting up and operating the various machines.

SPINNING.

Ring spinning; its history; construction of the modern spinning frame; spindles; kinds in general use; spindle speeds; the theory of spinning; rings; travelers; sizes suitable for different counts; builder-motions; their construction; warp and "filling" motions; cams used; traverse; traverse rail; the draught rolls; covering solid and shell rollers; setting the rolls to suit the length of staple; calculation in draughts and draught-change gears; proper draughts and speeds for different counts; twists; soft medium and hard twists; hosiery and doubling twists; standard twists; change-twist gear; draught and twist constants; cap and flyer spinning; principles explained; their disadvantages; cotton yarn measure; changing from one count to another; hank roving and draughts; twists; rules for obtaining the contraction; increasing production economically; ring twisters; wet and dry; reeling; standard skeins; mule spinning; its history and development; self-acting mules; the mule-head stock; analysis and description of its parts; the sequence of movements; timing the same; speeds of the parts; scroll shaft; back shaft; counter-faller shaft; cam shaft; the spindles; method of driving the same; the construction and operation of the carriage; the fallers; building bobbins and cops; the quadrant; its functions; the roll; draughts; calculations; drawings of the vital parts of the head stock; traveling scavengers; rope and band making; calculations necessary to their production; preparation of yarns for the market; spooling, winding, reeling and bunching yarns; packing, baling and boxing for transportation.

The instruction in carding and spinning consists of illustrated lectures, recitations from technical text-books, and demonstrations, in addition to the large amount of practical work required in operating, taking apart, erecting, repairing and caring for the several machines.

The student will be drilled thoroughly in all the calculations pertaining to carding and spinning.

Especial attention is paid to the grinding and setting of the cards, and to the manipulation of both white and colored stocks.

An amount of warp, filling and twist-yarns is required to be produced by each student, he making all necessary calculations and performing all the operations on the machines under the immediate direction of the instructor in charge.

Department of Weaving.

The instruction in this department includes: Warpers; types of warpers; their construction; mechanical and electrical stop-motions; electrical indicators; long and short chain warpers; loop-forming mechanisms; long chain quillers; their use; section warping; pin warping; splitting-in pins; proper tensions; building pin warps; beam warping; beamers and creels; the single-end electrical stop-motion and indicator; mechanical stop-motions; measuring devices; warp and warp yarn calculations; slashing; its object and effect in weaving; slashing warps; the steam cylinder slasher; advantages and disadvantages of this system; drying surface of the cylinders; hot air slashers; their construction; arranging beams on the creel; the size vat; heating the same; immersion and squeeze rolls; coverings for the rolls; the separator rods; leases; winding mechanism and variable speeds; measuring and cut-marking devices; size kettle; receipts for sizing compounds; mixing and cooking sizes; nature of yarns considered in sizing; drawing-in, tying-in and twisting-in warps; the care, cost and construction of loom harness; drawing cross and fancy draws; harness and heddle calculations; reeding; American and English systems of numbering reeds; selection and care of reeds; reeding in plain and fancy patterns; reed calculations; looming-warps; history and development of weaving mechanisms; hand-looms; power-looms; plain weaving; shedding, picking, lay, let-off and take-up motions; methods of forming the "shed;" the cam and cam scroll-looms; methods of strapping-up, leveling and adjusting the harness; picking-motions, principles of their construction; the lay or batten motion; let-off motions; friction and mechanical; take-up motions; positive and conditional; change-gears; pick-constants; warp stop motions; filling stop motions; protectors, magazine-looms; their construction; changing plain looms to weave fancy cotton fabrics; gingham-looms; box-motions; simple and compound levers for actuating the boxes; box-chains; their planning, building, and manner of controlling the boxes; multipliers and multiplier chains; circular boxes; witches, dobbies and "head-motions;" open and close shed head-motions; single and double cylinder; single and double acting dobbies; chain-building for the same; special looms for such fabrics as leno, lappet, bags, towels, etc.; doup selvages, side and center; fringe-weaving explained; lectures and practice in loom-fixing; lining the loom-parts; shuttle troubles and their remedies; filling-cutting; the use, care and building of box-chains; repeaters and multipliers; boxes controlled by the Jacquard machine; putting in pickers, picker-sticks and connections; picking-motion; their mechanical construction explained; cam and cone, alternating pick and sliding pick motions; warp-stop motion; filling-stop motions; knock-off lever, shipper and fork; protector, temples, let-off and take-up motions; Northrop looms; analysis of the filling changing mechanism; proper loom-speed; increasing the production of looms; miscellaneous weaving calculations; finishing; inspection of cloth; detecting and making imperfections; burling, mending; trimming; singeing and brushing machines; operation and care of the same; emery-rolls; sand-rolls; wire-nappers; washing, tentering and drying machines; folding, doubling and board rolling; methods of numbering, labeling, etc.; stamping and pressing; boxing and bale-packing.

Instructions on weaving, in all its branches, will be given by means of lectures, recitations, demonstrations, and practice on the splendid equipment of looms.

Department of Dyeing.

This department occupies the east end of the basement in the A. French Textile School. The laboratory and dye-house are well-equipped with all necessary apparatus, chemicals, dyestuffs, fixing agents, etc., for proper instruction. The school owns a valuable collection of dye specimens, yarns, chemicals, dye-woods, and coloring-matter.

Bleaching the common fibres demands special knowledge, and rapid advances have been made through careful study of the chemistry of this subject. Large works are erected for bleaching and dyeing in the varied forms of manufacture, and the industry calls for men who have had a good training in chemistry.

It is the object of this course to give the student a clear idea of the fundamental principles which underlie the arts of bleaching and dyeing, by means of lectures, recitations, experiments and research. The department also dyes and bleaches the yarns used in the weaving department of the School, thus giving the student a large quantity of practical work throughout the year.

The outline of the course is as follows:

Dyeing and Bleaching are taught by means of lectures and recitations two hours per week through the year. The following mentioned lectures are examples: Cotton Bleaching, Mercerized Cotton, Artificial Silk, Wool Scouring, Silk, Linen, Carbonizing, History of Dyeing, Theories, Water, including impurities and purification, Natural Coloring Matters, Artificial Dyestuffs, Mordants.

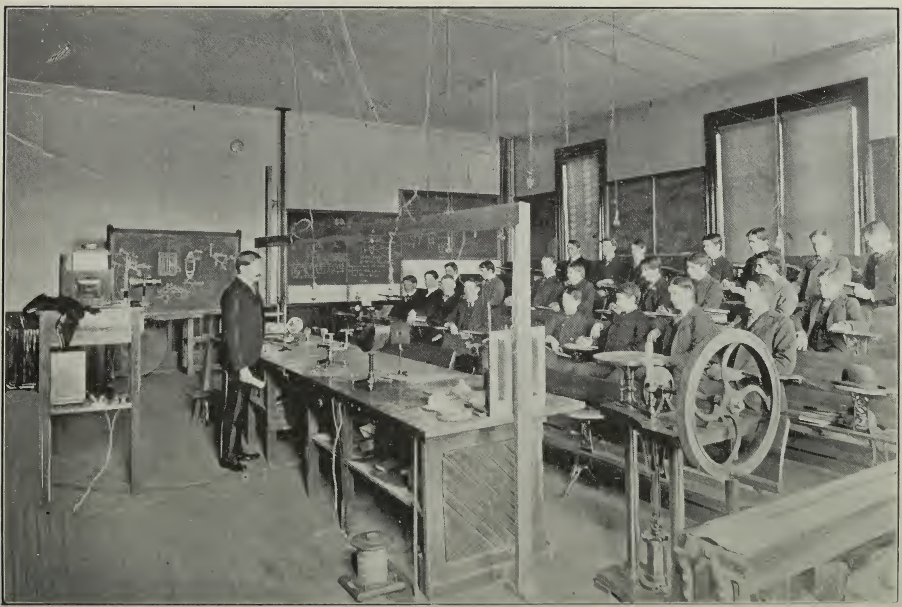
Experimental Dyeing.—The Senior class works in the laboratory and dye-house four hours per week through the year. The student bleaches cotton cloth and yarn, and dyes several kinds of textile materials on a small scale, being furnished with cotton, wool and silk for this purpose; and the class also dyes larger quantities of cloth and yarn for use in our Weaving department. Each student is required to mount specimens of his work on suitable cards, with the necessary notes, for future reference; several of these cards are retained as the property of the School. The work includes *Technology of Vegetables and Animal Fibres:* Cotton, linen, wool, silk, etc., chemical and physical properties, microscopical study, action of chemicals, heat, frost, etc. *Operations Preliminary to Dyeing*: Bleaching, wool scouring, silk reeling and scouring, action of soaps etc. *Chemicals not Dyestuffs:* Aluminum, iron, tin,, chromium, copper and organic mordants; fixing agents, leveling agents and assistants. *Natural Coloring Matters:* Application of indigo, logwood, cutch, fustic, Brazilwood, cochineal, etc. *Artificial Coloring Matters:* Examples from each class are studied and applied by the student. *Compound Shades. Matching off. Testing and Valuation of Dyestuffs*: The samples dyed are tested to permanence against the action of light, friction, washing, acids, alkalies. *Detection of Dyes in the Fiber. Comparative Tests. Manufacture of Dyes.* The class prepares dyes and then applies them properly.

Textile Mechanics and Mill Engineering.

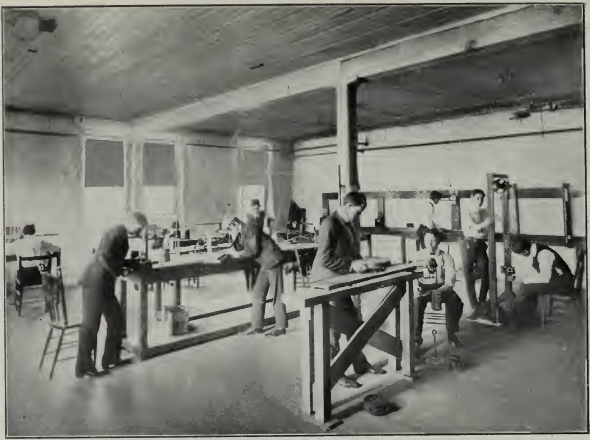
Besides understanding the different processes of cotton manufacture, a mill superintendent is called upon to manage the motive-power, operation and general economy of an entire plant. To this end a special course has been provided in the department of Mechanical Engineering.

It includes, first, during the second term of the Junior year, a thorough investigation of the laws of statics, with special attention to the solution of practical problems by moments, three forces meeting in a point, resolution of forces, resultant of parallel force and center of gravity of bodies. The simple machine and the underlying principles of the lever, wheel and axle, inclined plane, pulley, screw, etc., are discussed, together with friction, its cause and effect. The student then takes up the study of dynamics, based on Newton's laws of motion, and problems involving mass, force, momentum, acceleration, and inertia are theoretically investigated. In connection with this course a series of lectures on the kinetic energy of fly-wheels and the bursting tendency due to centrifugal force, is given; also means of determining efficiency and horse-power of water-wheels. In the first term of the Senior year the student takes up Strength of Materials. In studying this subject, attention is directed especially to the action of simple stresses in the different building materials. The transverse strength of beams is thoroughly investigated, and expressions of the bending moment and resting moment are thoroughly brought out; the resilience of materials is introduced, and methods are explained for determining the formula for torsion in shafts, and the amount of horse-power transmitted. In connection with this work, a series of lectures are given on designing lap and butt joints, and methods of determining their efficiency, including the pressure in boilers, tubes, water pipes, etc.

The second term of the Senior year is devoted principally to the steam-engine, power-transmission, and machine-design. In this course special attention is given to the economy of the different types of boilers, and of fuel and water, with means of preventing corrosion, incrustations, and general destructive elements. Attention is given to the management and design of the principal settings and fittings, stacks, economizers, pumps, and injectors. In the study of the steam-engine the student takes up the first theoretical types and then from the mechanics of the steam to the commercial types. Especial attention is given to the design and operation of errors in these by the indicator diagram. In the second term of the Senior year a thorough course is given in Mill construction, Mill Ventilation, Mill Sanitation, and Fire Protection. Humidifiers, sprinkler systems, and heating systems are studied in detail. The student in this course also has the advantage of attending a course of lectures in the management and operation of manufacturing plants.



CLASS-ROOM IN PHYSICS.



THE PHYSICS LABORATORY.

ELECTRICAL MEASUREMENTS—PHYSICS.

Special Textile Course.

In order to accommodate to a limited extent a class of young men who may not have the time or means to take the full Textile Course, a special course in Textiles is offered, which may be finished in two years. As students taking this course are in the mill at practice every day in the week, in order that they may not interfere with the regular students, only a limited number (24) can be taken. All applicants for this course are required to pass an examination in Arithmetic, and must be especially proficient in the following subjects: compound numbers, ratio and proportion, percentage, involution and evolution, alligation, and mensuration. In case there are more than twenty-four, those who are most proficient in the Arithmetic examination will be allowed to enter. The requirement in Arithmetic is absolutely necessary for the success of the student. In the practical work which he receives in the mill, in the calculation of speeds, etc., no time is available for drilling the student in the principles of Arithmetic. All of his time is taken up in practice and such recitation work as will benefit his practical knowledge of Textile work. This course is not accompanied by a certificate or degree.

DEPARTMENT OF PHYSICS.

Professors Edwards and Payne.

The aim of this department is to present the fundamental principles of Physics, the experimental basis upon which they rest, and, as far as possible, the mathematical reasoning employed in the deduction of various physical formulas. The student is not only made acquainted with certain physical laws in accordance with which physical events occur, but is taught that all physical quantities can be represented by symbols, and that certain mathematical relations exist between them, in consequence of which logical deductions can be made.

The study of Physics is taken up in a thorough and systematic way. Numerous problems are assigned in recitations, in order to familiarize the student thoroughly with the significance and practical use of the principles which he learns and the physical formulas which he sees deduced. One experimental lecture per week is given in this course.

The lecture-room is provided with various facilities for experimental demonstration. By means of shades the room can be darkened when needed; the lecture-table is provided with a water-tank; and water, gas, and electricity from the dynamo are available; also current from a storage-battery of nine chloride accumulator-cells. There is a good double stereopticon with arc-lamps and mechanical dissolver; also a projecting lantern with J. B. Colt automatic feed arc-lamp, supplied with vertical attachment—an accessory to a lecture-room which is indispensable for the satisfactory presentation, to a large class, of a great variety of physical phenomena. The department is supplied with a polariscope, for the projection on the screen of the colors of crystalline plates, and with a collection of about thirty-five lantern-slides used in lectures. The outfit of apparatus for lecture experiments is large, and additions to it are constantly being made. Among the many pieces of apparatus may be named: a hydraulic press, a large rotary air-pump, rotating apparatus with accessories, a mandrel for high-speed rotation, gyroscope, balances, Hero's fountain, barometers, Holtz machine, eight-inch spark Ruhmkorff induction-coil, Geissler and Crookes tubes, several X-Ray tubes and fluoroscope, a battery of Leyden jars, wireless telegraph apparatus, apparatus for the mutual action of currents, tangent galvanometers, resistance boxes, thermopile, two large parabolic reflectors, lenses, concave and convex mirrors, apparatus for demonstrating the laws of reflection and refraction of light, revolving mirror and manometric capsule, Koenig's interference apparatus for sound, organ-pipes, tuning-forks, siren, sonometer, spectrometer, diffraction-gratings, prisms, and many other pieces.

The equipment of the physical laboratory is very complete, additions having been made during the present year, both by construction in the shops of the Institution and by purchase. For laboratory work in electricity, the department is supplied with a sensitive Thompson mirror galvanometer, a Siemens mirror galvanometer, a mirror galvanometer by Queen & Co., a very sensitive D'Arsonval galvanometer, a Rowland's patent D'Arsonval galvanometer, a large tangent galvanometer, three small D'Arsonval galvanometers, a magnetometer, a 5-dial Wheatstone bridge, two slide-wire bridges, a Weston ammeter, ten resistance-boxes of various sizes, a copper voltameter, an earth-coil, a ballistic galvanometer, a Carhart-Clark standard cell, 1-M. F. standard condenser, and a Kempe discharge key for capacity tests.

The course in laboratory instruction includes experimental verification of the physical formulas and the determination of various physical constants, and is designed to give the student practice in the use of instruments of precision, and a certain amount of proficiency in physical manipulation. Among the experiments performed in this laboratory are the following: Determination of the acceleration of gravity by the physical pendulum, of the modulus of torsion of a steel wire, of the coefficient of friction between two bodies, of the relation between power and load of a wheel and axle; verification of Boyle's Law; determination of radiation constant of a calorimeter, of the heat of fusion of ice, of the heat of vaporization of water, of the specific heat of a metal; verification of the laws of vibrating strings by sonometer; determination of index of refraction of glass by spectrometer, of distance between the lines of a diffraction grating; the measurement of resistance by Wheatstone bridge, of E. M. F. and resistance of batteries, of magnetic moment of magnet by magnetometer, of the horizontal intensity of the earth's field, of the capacity of condensers, of temperature coefficient of resistance of copper, of the magnetic properties of iron by ballistic galvanometer method.

Carefully written reports are required on all experiments performed. These reports are considered important features of the course, for in this way the student acquires clearness and facility of expression in the description of scientific investigations.

The following courses are offered in this department:

As a preparatory study, Physical Geography is required of the Apprentice class, second term.

1. GENERAL PHYSICS.

The aim of this course is to give a general survey of the field by means of experimental lectures and study of a text-book. Four hours per week during the first year, and three hours per week during the first term of the second year.

Required of all students except Textile Engineers.

Carhart, "University Physics," Parts I. and II.

2. GENERAL PHYSICS--Short Course.

This course covers the same ground as Course 1, except that less time is devoted to the subject. Three hours per week throughout the year.

Required of Textile Engineering Sophomores.

Carhart, "University Physics," Part I.

Carhart and Chute, "High School Physics."

3. PHYSICAL LABORATORY.

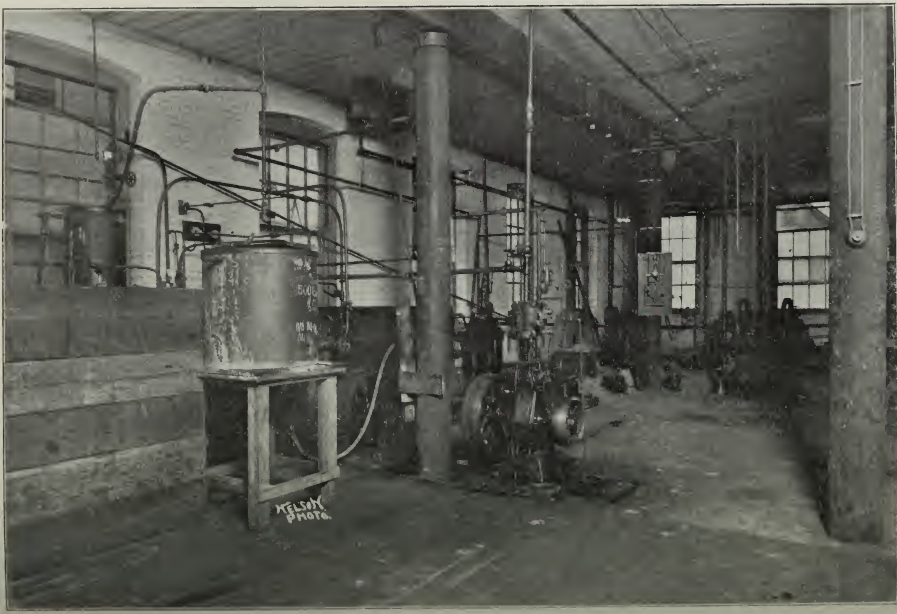
Three hours per week throughout one year, beginning with the second term.

Required of all students except Textile Engineers.

4. PHYSICAL LABORATORY--Electrical Measurements.

Advanced course for Electrical Engineers. Three hours per week during the second half of first term.

Required of Electrical Engineering Juniors.



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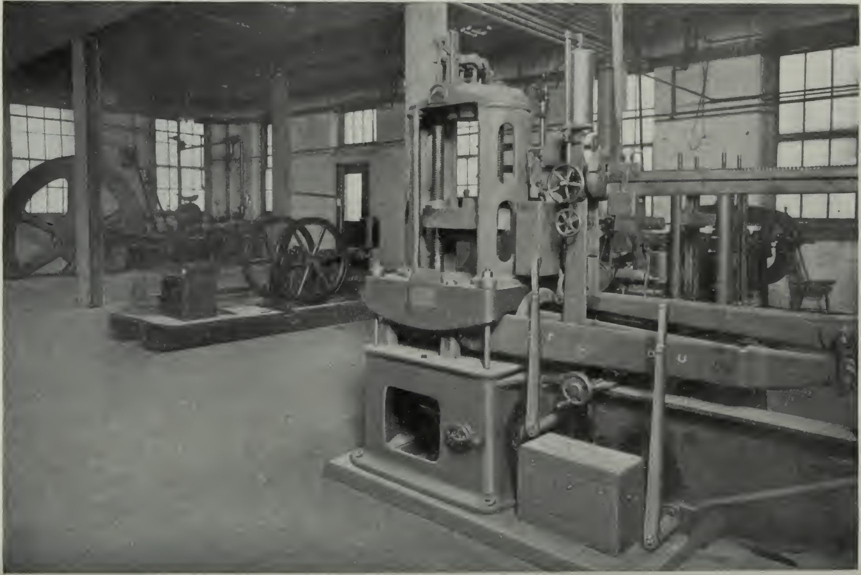

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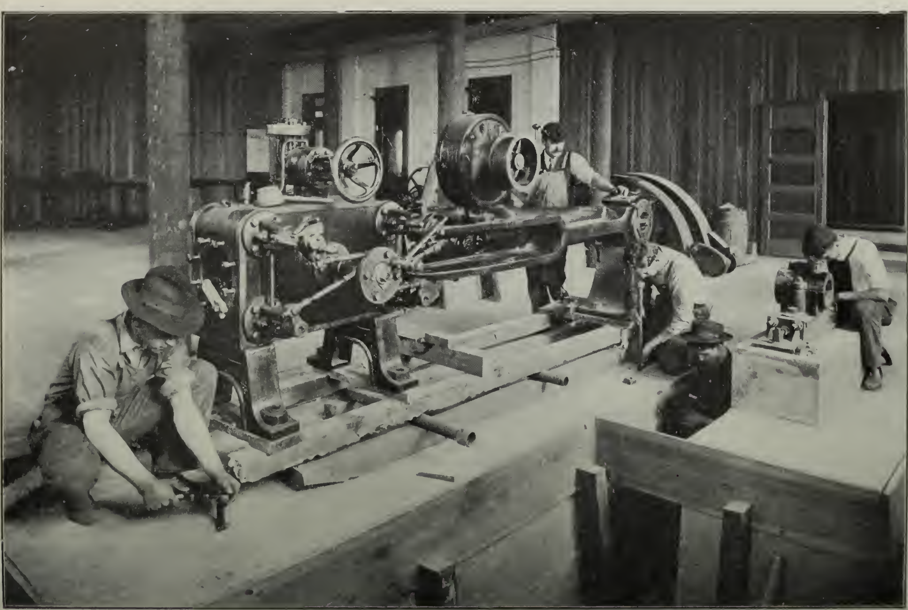


INSTALLING NEW ENGINE— EXPERIMENTAL LABORATORY.

THE ICE PLANT

DEPARTMENT OF EXPERIMENTAL ENGINEERING.

PROFESSORS NESBIT AND FUNK.

The object of courses in this department is to enable the engineering student to recognize and apply such natural forces and materials as are adapted to his uses.

In order that he may be capable of intelligently and skillfully designing, constructing, and supervising all kinds of machinery, it is necessary that he should pursue a thorough and extensive course of training, both theoretical and practical. While theoretical courses are of primary importance in according mental discipline not to be derived from practical research, it will be seen that the latter is made to go hand-in-hand with the former, it being believed that from continual practical applications of theoretical conclusions a broader and more tangible conception of their truths may be derived. It is not, then, at the expense of the abstract mathematical law that time is given to show how it may be involved in the construction of the simplest machine, for not only is a new and suggestive meaning thereby given to the various contrivances of the mechanism, but an insight into the whole significance of the law itself is gained which can be acquired only by observing practical applications.

To explicate theoretical principles, however, is not the only value of the experimental work of the department. If the student desires to go from college to the manufacturing world, it is essential that he should be familiar with working-machines, methods of management, and as much of the every-day detail of engineering work as it is possible for him to acquire as a supplement to his higher training.

LABORATORY DEPARTMENT.

The Laboratory Equipment consists of the following machines and instruments:

One Olsen Testing Machine.
One 2,000-pound Transverse Testing Machine.
One Riehle Automatic Autographic Testing Machine.
One Olsen Torsion Testing Machine.
One Lubricant or Oil Testing Machine.
One Cement Testing Machine and complete outfit for cement.
One 6-H. P. Gas Engine.
Gas apparatus for gas analysis.
One 60-H. P. Corliss Engine.
One 500-pound ice-making plant.

Donated.

One set of Crosby Steam Indicators with springs complete.
One Water Meter.
One 9-H. P. Gasoline Engine.
One Blakeslee Steam Pump.
One 2½-inch Steam Separator.
One 3½-inch Steam Separator.
One 6-inch Steam Separator.
One 200-pound Steam Gauge.
One 200-pound Water Gauge.
One Throttling Calorimeter.
One Pulsometer Steam Pump.
One Pelton Motor.
Thermometers.
One Pump Governor.
One 6-H. P. Automatic Steam-Engine.
One Model Hydraulic Press.
One Detroit Steam Separator.
One Crosby Gauge-Tester.
One 200-pound Steam Gauge.

One 300-pound Water-Pressure Gauge.
One Vacuum Gauge.
One Steam Pump.
One Pyrometer.
One Hydraulic Ram.
One Baum Steam and Oil Separator.
Seven Steam Gauges.
Six Water Gauges.
Six Vacuum Gauges.
Three Speed Indicators.
One Gas Meter.
One Water Meter.
One 4-inch Centrifugal Pump.
Two Micrometer Calipers.
Three Planimeters.
Two Injectors.
One 3½-inch Exhaust Head.
Numerous Pulleys.

Laboratory Experiments.

Strength of Materials; Tensile and Transverse; Compression and Torsion; Brick; Stone; Cement; Flexure.

Lubricants: Coefficient of Friction; Viscosity; Chill-test; Flash-test; Durability, etc.

Calibration: Indicator-springs and Steam-gauges; Indicator Drum-spring; Water-meters; Gas-meters; Planimeters.

Steam-Engine: Indicator-practice; Valve-setting; Clearance; Calorimetry; Barrel and Throttling; Condenser Steam and Oil Separators.

Efficiency Tests: Steam-boiler; Pelton Water-wheel; Steam-pump; Steam-engine; Gas-engine; Pulsometer; Injector; Centrifugal Pump; Hydraulic Ram; Air Compresser; Ice Plant; Gasoline-engine; Steam-engine; Hinis Analysis, etc.

DEPARTMENT OF MODERN LANGUAGES.

The study of modern languages at the School of Technology has a twofold aim. Primarily, its purpose is to enable students to translate into their own tongue with ease and precision the literature which is constantly appearing in these languages on their professional subjects. Secondarily its aim is to create in the student a living interest in the literature of these languages—an interest so strong that he will continue to read the great literary masterpieces found in them.

The courses in French and German extend through two years and candidates for all degrees, except that of Bachelor of Science of Textile Engineering, are required to take a two-year course in one of these languages.

The fall term of the first year is devoted to a thorough grounding in the inflections of the languages. In the winter and spring terms, the forms already learned are fixed by translating and parsing easy prose selections. Correct pronunciation is aimed at from the beginning—a correctness gained not by rules, but from the teacher. The ear is trained by dictation, and, as far as time will permit, by conversational exercises.

During the second year, works of greater difficulty will be translated, the syntax of the language will be studied more thoroughly, and the sentence-structure will be taught by practical work both in written and oral exercises. In both years a wider field is covered by reading one part of the work assigned carefully and slowly, another part rapidly. Greater facility in handling the languages is also gained by frequent sight-translations.

In order that students may learn to handle the topics discussed in the current German and French technical magazines, articles from these are assigned to members of the Senior class, and written translations are required to be made in good English, at the same time faithfully reproducing the originals.

German.

Junior Class.

Three hours weekly throughout the session. Vos, *Essentials of German;* Carruth, *German Reading;* Brandt & Day, *German Scientific Reading;* Moore, *History of German Literature;* Storm, *Immensee;* Von Wildenbruch, *Das edle Blut.*

Senior Class.

Three hours weekly throughout the session. Grammar reviewed in connection with reading. Weekly exercises on German Syntax. Jagemann, *German Syntax,* Wesselhoeft, *German Composition;* Moore, *History of German Literature.*

Class-reading taken from the following: Freytag, *Aus dem Staat Friedrichs des Groszen, Die Journalisten;* Heine, *Harzreise;* Muller, *Die elektrischen Maschinen;* Brandt & Day, *German Scientific Reading.*

Sight-reading: Keller, *Kleider machen Leute;* Mosher, *Willkommen in Deutschland;* Wilhelmi, *Einer musz heiraten;* Schiller, *Das Lied von der Glocke.*

Private reading in English, translations of: Goethe, *Faust, Part I., Hermann and Dorothea;* Lessing, *Minna von Barnhelm;* Schiller, *William Tell.*

French.

Junior Class.

Three hours weekly throughout the session. Fraser & Squair, *French Grammar;* Kuhn, *French Reading;*. Dike, *Scientific French Reader;* Kastner & Atkins, *Short History of French Literature;* Sight-reading: Halevy, *L'Abbe Constantin;* Bruno, *Tour de la France par deux enfants.*

Senior Class.

Three hours weekly throughout the session. Fraser & Squair, *French Grammar,* completed; Sanderson, *French Composition;*

Kastner & Atkins, *Short History of French Literature;* Dike, *Scientific French Reader.*

Class-reading taken from the following: Daudet, *Morceaux Choisis,* (Ed. by Freeborn); Feuillet, *Le Roman d'un jeune Homme pauvre;* Musset, *Trois Comedies;* Hugo, *La Chute;* Moliere, *Le Bourgeois Gentilhomme.*

DEPARTMENT OF DRAWING.

Professors Coon, Lowndes, and Lowell.

In the Mechanical, Electrical, and Civil Engineering courses, drawing is pursued for the entire four years; but on account of the widely different nature of the graduate work in these departments, the last, or Senior, year's work is done under the direct supervision of the professor of engineering in that particular department.

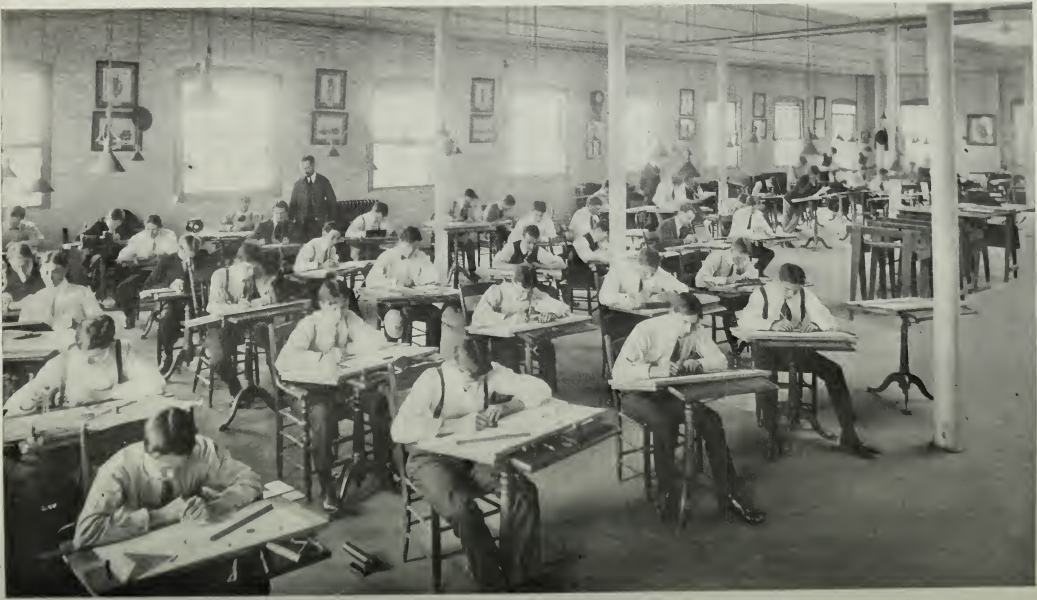
In the Textile and Chemical courses, all the drawing is done in this department.

The work in the drawing department, being necessarily subordinate to the graduate work in the different engineering courses, is outlined with special reference to the course the individual student intends to pursue.

Free-hand drawing is the same in all courses, and is pursued for four hours per week for the first twelve weeks of the Freshman year.

At the close of the Christmas holidays, Freshman year, instrumental geometric construction is taken up; this, in turn, is followed by a very complete course in orthographic, isometric, and pseudo-perspective drawing; together with the study of descriptive geometry, and a thorough course in parallel drawing. This work is continued until the end of the year.

At the beginning of the Sophomore year, the subject of machine drawing is taken up, and is continued for the remainder of the year.



THE DRAWING-ROOM FOR FRESHMAN, SOPHOMORE AND JUNIOR CLASSES.

THE
JOHN CRERAR
LIBRARY.

Here the student is taught to make a working-drawing, one not only a true delineation of the object, but also showing all the necessary dimensions. These drawings are made from drawings and sketches of machine parts. Assembly drawings are made from detail drawings, and detail drawings from assembly. The drawing for the first half of the Junior year is assembly and detail drawings of complete machines, such as engines, both horizontal and vertical, power and steam pumps, engine, laths, etc.

A portion of the time, also, is devoted to the construction of spur, worm, and bevel-gears and the laying out of plane and helical cam curves, valve diagrams, velocity and acceleration curves.

In connection with the drawing and discussion of gears, cams, diagrams, etc., there is given a course of recitations in Mechanism and Elementary Machine Design. Four hours per week for the first half year are devoted to this class-room work, while four hours per week for the full year are devoted to drawing-room practice.

The second half of this Junior year is devoted in the Mechanical and Electrical courses, to elementary machine design, which is continued and completed in the graduate-year work in the individual departments; while in the Textile course special attention is given to drawing textile machines and motions. The Chemical course is directed to the reproducing of technical charts and chemical manufacturing apparatus.

During the Sophomore and Junior years all students are required to make tracings both from inked and penciled drawings, and are taught to make blue-prints, brown-prints, etc.

Through the entire course special attention is given to lettering and use of conventions as generally used in up-to-date drawing-offices of manufacturing plants.

No attempt is made towards producing artistic work, and at no time is accuracy sacrificed for appearance, though neatness is required.

The instruction in this department is largely individual, the instructors constantly going from desk to desk discussing with the student the work in hand.

Students for all courses entering the Sophomore class are required to draw two hours extra each week for two years.

DEPARTMENT OF MINING ENGINEERING.

At its quarterly meeting on April 4, 1906, the Board of Trustees instituted a department of Mining Engineering, and the work of the department began September 26, 1906. Recognizing the vital need of mining engineers to develop the great mineral wealth of Georgia and the South, every effort will be made to equip the department fully, and to conduct its work in accordance with the best methods of mining engineering instruction. The course is given in full on pages 94, 95.

GEOLOGY AND MINERALOGY.

Geology.

The course in Geology embraces General and Economical Geology. In General Geology the student begins his work by a study of the forces now producing changes on the earth's surface. He is made familiar with the principal changes produced by the atmospheric, the aqueous, the igneous, and the organic agencies, and shown how these changes can be used to interpret the history of the earth. He then takes up the study of the structure of the rocks and is made acquainted with the leading principles of Structural Geology. This is followed by a study of the arrangement of the rocks in the order of their sequences, their classification into groups, and the evolution of the earth's features, together with the changes which the Life System has undergone since its introduction.

In the work in Economic Geology the student devotes his time to the study of the practical application of the science to mining and engineering. The general features and mode of occurrence of ore-bodies is taken up and studied, followed by a more detailed study of the various ores and products of quarries. The student also studies the origin of ores, and the distribution and location of quarries and mines, and familiarizes himself with the various metallic and non-metallic products of the country. The work in both General and Economic Geology is supplemented as far as possible by field work.

Mineralogy.

The work in Mineralogy includes short courses in Crystallography, in Descriptive Mineralogy, and in Lithology. In Crystallography the student is instructed in the principles of the subject, and studies in some detail the different systems of crystals, with the aid of models, drawings, and natural crystals.

The course in Descriptive Mineralogy embraces a study of the physical properties of the leading ore and rock-forming minerals, supplemented by a limited amount of blow-pipe work.

In the course in Lithology the student studies the macroscopic and the microscopic character of rocks, special attention being given to their classification, origin, and mode of occurrence.

The small but well selected collection of minerals which now forms a nucleus of a museum belonging to the School is studied by the student in this course, as well as the more extensive State collection located in the corridors of the Capitol.

DEPARTMENT OF PHYSICAL CULTURE.

A sound mind in a sound body should be the aim and end of all education. That no mind can be sound and well balanced where the body is poorly nourished, weak, or diseased, is a self-evident fact. Therefore, everything being equal except health and strength, the man who has the last two qualifications will succeed where the weak and unhealthy will break down and fail.

This would be a source of great discouragement to those with weak, sickly bodies if it were not for the fact that they can become strong and healthy if they so desire; the only price being proper care and exercise of their bodies. No man is too old to be improved by a judicious course of physical training and any young man of average build can, by systematic exercise, develop his body and acquire such a degree of health, strength, and vigor as to seem almost miraculous.

In other words, it is possible for the vast majority of men to become strong of body and vigorous of mind.

Recognizing that the student, entering the Freshman class, is at the period where he is passing from boyhood to manhood and that his future success in life is largely dependent upon a strong, healthy body, the School has made a graded course in Gymnastics compulsory for all members of the Freshman class.

Each member of this class is required to report to the Director, who will give him a thorough examination and prescribe the exercise he is able to take.

The Gymnasium is a large, airy hall, 40x70 feet, with high ceiling permitting the use of flying-rings and other swinging apparatus. New apparatus is constantly being added, thus keeping abreast of the times.

The outfit for physical examination is complete—new apparatus being added as it is invented.

Each student in the Freshman class is required to supply himself with the regulation gymnasium uniform, consisting of plain, navy-blue, quarter-sleeve shirt; navy-blue knee-tights; supporter; and white shoes, at a total cost of about two dollars. Students are advised not to purchase the uniform until they come to Atlanta, thus avoiding mistakes. An examination in light and heavy gymnastics is given at the beginning of the fall term, and each man is advanced as fast as he improves.

THANKSGIVING GAME, 1906. SECTION OF BLEACHERS.

1906 BASEBALL TEAM.

Course in Graded Gymnastics.

First—Work on pulley-weights and other light apparatus to develop the muscular system, heart, and lungs.

Second—Light combinations; e. g., Indian-clubs, dumb-bells, etc., to develop grace, co-ordination, and self-control.

Third—Work on the heavy apparatus, to develop strength, physical judgment, muscular control, agility, and self-control.

Fourth—Competitive exercises, to develop judgment, coolness, self-confidence, etc.

INDIVIDUAL WORK.

All students are encouraged to do individual work and any student of the School can procure a thorough physical examination by making special arrangements with the Director.

ADVANCED GYMNASTICS.

Students showing special ability or aptitude for gymnastics are encouraged and given individual instruction.

BATHS AND HEATING.

A new dressing-room has been added with new shower baths. Special attention is paid to heating Gymnasium, bath-rooms, and dressing-room during cold weather.

COLLEGE ATHLETICS.

The true aim of college athletics is not to develop a few men at the expense of the rest, but to take all men in college and encourage them to participate in the various sports that all may share in the benefits. Not only do athletics foster physical strength and skill, but, when properly conducted, inculcate a spirit of honor among those who participate. "A fair field and no favors" is the true spirit of college sport at the present day.

College sports, while furnishing profitable employment to the men during their idle moments, have been no small factor in improving the deportment of the student body as a whole.

All forms of inter-collegiate games, such as football, baseball, tennis, track and field sports, are encouraged by the Faculty.

The campus in front of the School has been laid out with running-track, jumping and pole-vaulting paths, circles for shot and hammer, etc.

BASEBALL AND FOOTBALL.

Another large field, toward the east, is devoted to baseball and football, and has commodious grand-stands and bleechers, and dressing-rooms, fitted with lockers, for the players.

These sports are in charge of a most competent coach, who devotes his whole time to these two branches of athletics.

All athletics are under control of the Faculty.

COURSE OF STUDY.

(Numbers following subjects indicate hours per week.)

Apprentice Year.

(Same for all courses.)

First Term.

Mathematics (5).—Elements of Algebra.

Mathematics (5).—Plane Geometry.

English (5).—Grammar; Spelling; Burke's Oration on Conciliation with America; Declamation.

General History (3).

Wood Shop (4).

Second Term.

Mathematics (5).—Elements of Algebra.

Mathematics (5).—Plane Geometry.

English (5).—Grammar; Spelling; Milton's Minor Poems; Macaulay's Essay on Addison; Declamation.

Physical Geography (3).

Wood Shop (4).

Freshman Year.

(Same for all courses except T. E.)

First Term.

Mathematics (5).—Algebra (3); Solid Geometry (2).

English (4).—Rhetoric; Spelling; Readings; Essays.

Chemistry (5).—Inorganic Chemistry (3); Laboratory (2).

Drawing (4).—Free-hand; Geometric; Linear; Perspective Sketching.

Shop-Work (12).—Wood Shop (8); Smith Shop or Foundry (4).

Second Term.

Mathematics (5).—Plane Trigonometry (3); Analytic Geometry (2).

English (4).—Rhetoric; Spelling; Readings; Essays.

Chemistry (5).—Inorganic Chemistry (3); Laboratory (2).

Drawing (6).—Instrumental Linear; Descriptive Geometry Drawing.—Drawing 3 hours, Desc. Geom. Rec. 3 hours.

Shop-Work (8).—Wood Shop (4); Smith Shop or Foundry (4).

Sophomore Year.

M. E., E. E., C. E. and Mining.

First Term.

Mathematics (5).—Analytic Geometry (3); Calculus (2).

English (3).—American Literature; Readings; Essays.

Chemistry (4).—Qualitative Laboratory.

Drawing (8).—Kinematics and Mechanism (4); Machine Drawing to Scale (4).

Physics (4).—Mechanics.

Shop-Work (8).

Second Term.

Mathematics (5).—Calculus.

English (3).—Economics; Reports; Essays.

Chemistry (4).—Qualitative Laboratory (4).

Drawing (4).—Machine Drawing to Scale.

Physics (7).—Heat and Electricity (4); Laboratory, Mechanics and Sound (3).

Surveying (4).—Use of Level, Compass and Transit.

Shop-Work (8).

MECHANICAL ENGINEERING.

Junior Year.

First Term.

Mathematics (3).—Review and Mechanics.

English (3).—English Literature; Readings; Essays.

Drawing (4).—Machine Drawing to Scale.

Engineering (4).—Kinematics and Mechanism.

Physics (6).—Electricity and Magnetism (3); Laboratory, Heat and Light (3).

French or German (3).

Machine Shop-Work (4).

Second Term.

Analytic Mechanics (5).

English (3).—English Literature; Readings; Essays.

Drawing (4).—Machine-Design.

Mechanical Engineering (3).—Mechanics of Materials.

Civil Engineering (3).—Hydraulics.

Experimental Engineering (3).—Work in Testing Materials.

French or German (3).

Machine Shop-Work (4).

Senior Year.

First Term.

Drawing (4).—Special Problems in Designing Machinery.

Mechanical Engineering (11).—Analytic Mechanics (4); Steam-Engine and other Prime Movers (4); Mechanics of Materials (3).

Experimental Engineering (3).—Work in Testing Materials.

Electrical Engineering (5).—Electric Power Distribution.

French or German (3).

Machine Shop-Work (4).

Second Term.

Drawing (8).—Graduate Work in Machine-Design.

Mechanical Engineering (11).—Machine-Design, Text (3); Gas and Hydraulic Motors (3); Special Engineering Problems (3); Graphical Statics (2).

Experimental Engineering (3).—Tests of Steam and Gas-Engines.

Thesis-Work (4).

French or German (3).

Machine Shop-Work (4).

ELECTRICAL ENGINEERING.

Junior Year.

First Term.

Mathematics (3).—Vector Analysis, Fouriers Series.

English (3).—English Literature; Readings; Essays.

Physics (9).—Electricity and Magnetism (3); Laboratory, Heat and Light (6).

Engineering (4).—Kinematics and Mechanism.

Drawing (4).—Detail and Assembly Drawing.

French or German (3).

Second Term.

Analytic Mechanics (5).

Experimental Engineering (2).—Mechanics of Materials.

English (3).—English Literature; Readings; Essays.

Electrical Engineering (4).—Dynamo Electric Machinery.

Drawing (4).—Motion Diagrams; Machine Drawing.

French or German (3).

Shop-Work (4).—Machine Shop.

Senior Year.

First Term.

Electrical Engineering (17).—Telephone and Telegraph (2); Dynamo Electric Machinery (5); Electrical Laboratory (4); Electric Lighting (2); Electric Design (4).

Experimental Engineering (6).—Steam-Engines and Boilers (3); Materials, Laboratory (3).

French or German (3).

Second Term.

Electrical Engineering (17).—Electrical Design (4); Electric-Power Plants (5); Electrical Laboratory (4); Current Engineering (2); Electric Railways (2).

Mechanics (3).—Hydraulics.

Thesis.

French or German (3).

CIVIL ENGINEERING.

Junior Year.

First Term.

Mathematics (3).—Review, Spherical Trigonometry, Least Squares.

English (3).—English Literature; Readings; Essays.

Engineering (7).—Field Engineering (4); Railroad Surveying; Topographical Surveying (3).

Physics (6).—Electricity and Magnetism (3); Laboratory, Heat and Light (3).

Shop-Work (4).

French or German (3).

Second Term.

Mechanics (5).—Analytic Mechanics.

English (3).—English Literature; Readings; Essays.

Engineering (6).—Mechanics of Materials (3); Hydraulics (3).

Drawing (3).—Shades, Shadows and Perspective.

Experimental Engineering (3).—Work in Testing Materials.

French or German (3).

Senior Year.

First Term.

Mechanical Engineering (3).—Mechanics of Materials.

Civil Engineering (11).—Masonry Structures (3); Framed Structures (3); Hydraulic Machinery (3); Topographical and Geodetic Surveying (2).

Experimental Engineering (9).—Steam-Engines (3); Steam-Engine Laboratory (3); Materials, Laboratory (3).

Drawing (4).—Topographical and Geodetic Mapping.

French or German (3).

Second Term.

Civil Engineering (10).—Framed Structures (5); Municipal Engineering (5).

Electrical Engineering (5).—Electric Power Distribution (2); Electric Laboratory (3).

Experimental Engineering (3).—Hydraulic and Cement Laboratory.

Drawing (4).—Designs of Structures and Municipal Improvements.

French or German (3).

Thesis.

TEXTILE ENGINEERING.

Freshman Year.

First Term.

Mathematics (5).—Algebra (3); Solid Geometry (2).

Chemistry (5).—Inorganic Chemistry (3); Laboratory (3).

English (4).—Rhetoric; Spelling; Readings; Essays.

Drawing (4).—Free-Hand; Geometric Linear; Perspective Sketching.

Mill (8).—Carding (4); Weaving (4).
Shop-Work (4).—Wood-Shop.

Second Term.

Mathematics (5).—Plane Trigonometry (3); Analytic Geometry (2).
Chemistry (5).—Inorganic Chemistry (3); Laboratory (2).
English (4).—Rhetoric; Spelling; Readings; Essays.
Drawing (8).—Instrumental Linear; Geometric, Cabinet and Orthographic Projections.
Mill (8).—Carding (4); Weaving (4).
Shop-Work (4).—Blacksmith Shop.

Sophomore Year.

First Term.

Mathematics (5).—Analytic Geometry (3); Calculus (2).
Chemistry (4).—Qualitative Laboratory.
English (3).—American Literature; Readings; Essays.
Physics (3).—Mechanics.
Drawing (4).—Machine Drawing to Scale.
Designing (4).—Fabric Structure and Design.
Mill (8).—Carding and Spinning (4); Weaving (4).

Second Term.

Mathematics (5).—Calculus.
Chemistry (4).—Qualitative Laboratory.
English (3).—Economics; Readings, Essays.
Physics (3).—Electricity and Magnetism.
Drawing (4).—Machine Drawing to Scale.
Designing (4).—Fabric Structure and Design.
Mill (8).—Weaving (4); Carding (4).

Junior Year.

First Term.

English (3).—English Literature; Readings, Essays.
Mechanism (4).

Drawing (4).—Detail and Assembly Drawing Textile Machines to Scale.

Designing (8).—Fabric Structure and Design.

Carding (3).—Recitations and Lectures.

Weaving (2).—Recitations and Lectures.

Mill (8).—Carding and Spinning (4); Weaving (4).

Shop-Work (4).—Machine Shop.

Second Term.

English (3).—English Literature; Readings; Essays.

Mechanics (4).

Drawing (4).—Detail and Assembly Drawings.

Designing (4).—Fabric Analysis.

Carding (3).—Recitations and Lectures.

Weaving (2).—Recitations and Lectures.

Mill (8).—Carding and Spinning (4); Hand Weaving (4).

Shop-Work (4).—Machine Shop.

Senior Year.

First Term.

Experimental Engineering (6).—Mechanics of Materials (3); Laboratory (3).

Designing (8).—Jacquard Designing.

Dyeing (6).—Lectures (2); Dyeing Laboratory (4).

Carding (3).—Recitations.

Weaving (2).—Recitations.

Mill (8).—Carding and Spinning (4); Weaving (4).

Second Term.

Experimental Engineering (6).—Steam-Engine (3); Power Laboratory (3).

Superintendence (2).—Lectures.

Designing (4).—Jacquard Designing and Analysis.

Dyeing (6).—Lectures (2); Dyeing Laboratory (4).

Electrical Engineering (5).—Electric Power Distribution (2); Electrical Laboratory (3).

Carding (3).—Recitations.

Mill (8).—Carding and Spinning (4); Weaving (4).

Thesis.

ENGINEERING CHEMISTRY.

Sophomore Year.

First Term.

Mathematics (5).—Analytic Geometry (3); Calculus (2).

Chemistry (13).—Advanced Inorganic Chemistry (1); Qualitative Laboratory (12).

English (3).—American Literature; Readings; Essays.

Physics (4).—Mechanics.

Drawing (4).—Machine Drawing to Scale.

Second Term.

Mathematics (5).—Calculus.

Chemistry (13).—Advanced Inorganic Chemistry (1); Qualitative (4); Quantitative, General Methods (8).

English (3).—American Literature; Readings; Essays.

Physics (7).—Electricity and Magnetism (4); Laboratory (3); Mechanics and Sound.

Drawing (4).—Drawing of Technological Charts.

Junior Year.

First Term.

Chemistry (16).—Organic Chemistry (3); Organic Laboratory (4); Quantitative (8); Advanced Inorganic Chemistry (1).

English (3).—English Literature; Readings; Essays.

Physics (4).—Electricity and Magnetism.

Physics Laboratory (3).—Heat and Light.

Drawing (4).

French or German (3).

Second Term.

Chemistry (20).—Organic Chemistry (3); Organic Laboratory (4); Advanced Inorganic Chemistry (1); Quantitative (12).

English (3).—English Literature; Readings; Essays.

French or German (3).

Mechanics (4).—Analytic Mechanics.

Senior Year.

First Term.

Chemistry (23).—Industrial and Advanced Experimental Chemistry (3); Physical Chemistry (2); Metallurgy (2); Quantitative (16).

Engineering (6).—Mechanics of Materials (3); Experimental Engineering (6).

French or German (3).

Smith Shop (4).

Second Term.

Chemistry (21).—Industrial and Advanced Experimental Chemistry (3); Physical Chemistry (2); Quantitative (16).

Engineering (6).—Steam-Engine and Boilers (3); Power Laboratory (3).

Electrical Engineering (5).—Electric Power Transmission (2); Electrical Laboratory (3).

French or German (3).

Machine Shop (4).

CHEMICAL COURSE.

Sophomore Year.

First Term.

Chemistry (22).—Organic Chemistry (3); Organic Laboratory (4); Advanced Inorganic Chemistry (3); Qualitative (12).

English (3).—Economics; Essays; American Literature; Readings; Essays.

Physics (4).—Heat, Sound and Light.

Drawing (4).—Machine Drawing to Scale.

Second Term.

Chemistry (15).—Organic Chemistry (3); Organic Laboratory (4); Qualitative (4); Quantitative (4).

English (3).—American Literature; Readings; Essays.

Physics (3).—Electricity and Magnetism.

Physics Laboratory (3).—Mechanics and Sound.

Drawing (4).—Drawing of Technological Charts.

Junior Year.

First Term.

Chemistry (14).—Quantitative Analysis.

English (3).—English Literature; Readings; Essays.

Physics (6).—Electricity and Magnetism (3); Laboratory (3).

German (3).

Crystallography (1 and 3).

Mineralogy (2 and 2).

Second Term.

Chemistry (22).—History of Chemistry (2); Quantitative Laboratory (20).

English (3).—English Literature; Readings; Essays.

German (3).

Geology (4).—General Geology.

Senior Year.

First Term.

Chemistry (21).—Industrial and Advanced Experimental Chemistry (3); Physical Chemistry (2); Quantitative (12).

German (3).

French (3).

Economic Geology (2).
Metallurgy (4).
Assaying (3).

Second Term.

Chemistry (8).—Industrial and Advanced Experimental Chemistry (3); Physical Chemistry (2); Advanced Qualitative Analysis (3).

German (3).
French (3).
Thesis.

MINING COURSE.

Junior Year.

First Term.

English (3).—English Literature; Readings; Essays.

Physics (6).—Electricity and Magnetism (3); Laboratory (3).

French or German (3).
Geology (3).
Mineralogy (4).
Crystallography (4).
Assaying (1).
Chemical Analysis (4).

Second Term.

Analytic Mechanics (5).

English (3).—English Literature; Readings; Essays.

French or German (3).

Engineering (9).—Hydraulics (3).

Metallurgy (2).
Ore Dressing (3).
Assaying (3).
Chemical Analysis (4).

Senior Year.

First Term.

French or *German* (3).
Field Engineering (3).—Field Practice (3).
Mechanics of Materials (3).
Steam Engine (3)—Laboratory (3).
Economic Geology (2).
Metallurgy (10).
Quantitative Analysis (4).

Second Term.

French or *German* (3).
Power Transmission (5).
Mining (5).
Metallurgy (5).
Framed Structures (3).
Quantitative Analysis (4).
Thesis.

SPECIAL TEXTILE COURSE.

First Year.

First Term.

Chemistry (5).—Inorganic Chemistry (3); Laboratory (2).
Carding (3).—Recitations.
Weaving (2).—Recitations.
Mill (16).—Carding and Spinning (8); Weaving (8).
Shop (8).—Wood-shop.

Second Term.

Chemistry (5).—Inorganic Chemistry (3); Laboratory (2).
Designing (4).—Fabric Structure and Design.
Carding (3).—Recitations and Lectures.
Weaving (2).—Recitations and Lectures.
Mill (16).—Carding and Spinning (8); Weaving (8).
Shop (8).—Smith-shop.

Second Year.

First Term.

Dyeing (6).—Lectures (2); Laboratory (4).
Designing (12).—Dobby (8); Jacquard (4).
Carding (3).—Recitations.
Weaving (2).— Recitations.
Mill (16).—Carding and Spinning (4); Weaving (8).
Shop (4).—Machine-shop.

Second Term.

Dyeing (6).—Lectures (2); Laboratory (4).
Designing (12).—Dobby (8); Jacquard (4).
Carding (3).—Recitations.
Weaving (2).— Recitations.
Mill (6).—Carding and Spinning (4); Weaving (8).
Shop-Work (4).—Machine-shop.

ARTISAN COURSE.

First Year.

First Term.

Mathematics (5).—Solid Geometry (2); Algebra (3).
English (4).—Rhetoric; Spelling; Readings; Essays.
Physics (3).—Mechanics.
Drawing (10).
Shop (20).

Second Term.

Mathematics (5).—Plane Trigonometry (3); Analytic Geometry (2).
English (4).—Rhetoric; Spelling; Readings; Essays.
Physics (3).—Sound, Light, and Heat.
Drawing (10).
Shop (20).

Second Year.

First Term.

Surveying (4).
Mechanism (4).
Mechanics of Materials (3).
Drawing (12).
Physics Laboratory (3).
Shops (12).

Second Term.

Steam-Engine (3).
Electric Power Transmission (5).
Testing Laboratory (3).
Drawing (12).
Shop (12).

A simple Thesis is required at the end of the Second Term.

Appropriations.

The School receives $55,000 per annum from the State, and $2,500 per annum from the city of Atlanta. During the session of the Legislature in 1906, the maintenance fund was increased from $45,000 to $55,000.

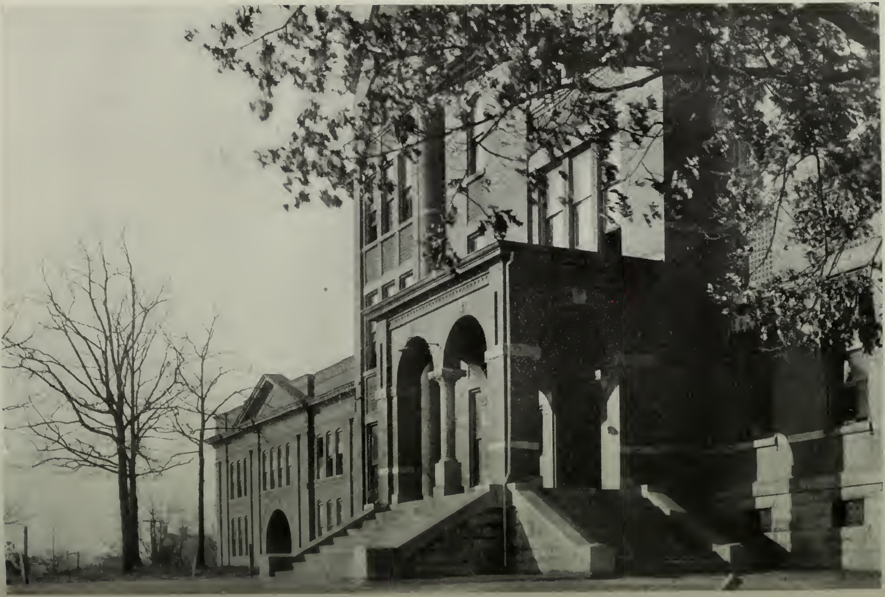
Buildings.

The School occupies a beautiful site in a campus of nearly sixteen acres, lying at the junction of North Avenue and Cherry Street, easily accessible by street-car lines on Marietta, West Peachtree, and Luckie Streets. The Academic building is a splendid edifice of brick, trimmed with granite and terracotta and roofed with slate. It has one hundred and thirty feet front, is one hundred and twenty deep, and four stories above basement story. It contains ample accommodations in halls, offices, apparatus-rooms, recitation and lecture-rooms, library, and chapel.

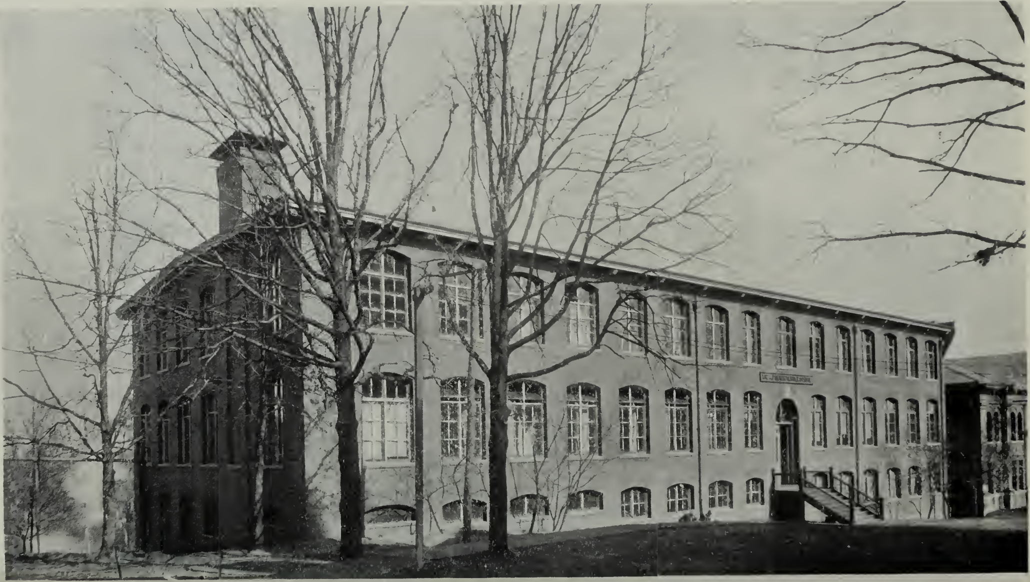
The workshops are also of brick, the main shop building being two hundred and fifty feet long by eighty wide, and two stories, with large basements. It is admirably designed with reference to its use, and affords ample space for the machine and wood-shops and the foundry. In the basement are complete equipment of lavatories, and lockers for students' clothes. The smith-shop, boilers, and cupolas for foundry are located outside the main-shop building, thus reducing to a minimum all chances of another disaster by fire.

During 1898 a new smith-shop was built. It contains 21 forges, a vise-room, and office, and is well lighted by large windows, which extend entirely around the building.

The new Textile building was completed in 1898, and is 150 by 70 feet, with three floors for the accommodation of machinery, class-rooms, etc. It was designed by Lockwood, Greene & Co., of Boston, and fulfills every requirement of a modern cotton-mill.

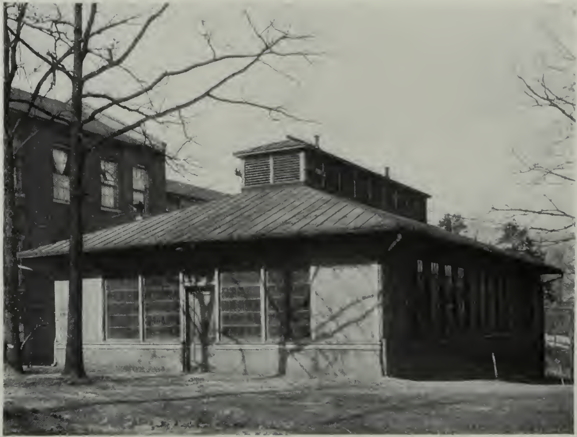


SHOPS AND MAIN BUILDING—FRONT VIEW

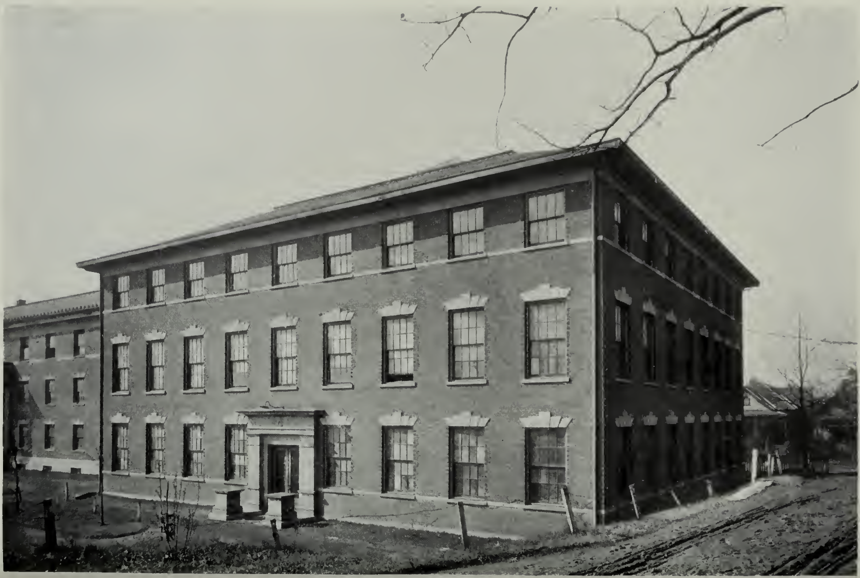


A FRENCH TEXTILE BUILDING

WOOD AND MACHINE SHOPS AND FOUNDRY



SMITH SHOP.



ELECTRICAL BUILDING.

The Dormitory buildings consist of the Janie Austell Swann Dormitories, containing fifty rooms for students; the Knowles Dormitory, containing thirty-six rooms for students, gymnasium, shower-baths, and dining-room; and two smaller dormitories of eight rooms each.

THE NEW BUILDINGS.

The Janie Austell Swann Dormitory cost $30,000 and accommodates 100 students. It is a handsome structure of three stories, 142 by 54 feet, and is finished in pressed brick and stone, with monumental pillars at the front entrance. It is heated by the blower system, lighted with electricity, and contains ample halls, reception-rooms, etc. The building is a memorial erected by Mr. James Swann to his wife.

The new Electrical building, costing $15,000, is three stories in height, 90x82 feet in plan, and contains the Mechanical and Experimental Laboratory, the Electrical Laboratory, Drawing-rooms, Blue-print room, and class-rooms.

A small frame structure has been built on the school property, isolated from other buildings, for the detention and treatment of students who may have contagious diseases.

The Lyman Hall Laboratory of Chemistry, which is in the shape of a T, is of brick with limestone trimmings, and is two stories in height, with a full basement.

Each floor has an approximate area of 5,600 square feet. The lecture-rooms, stock-rooms, library, offices, gas analysis laboratory, photographic and spectroscopic rooms occupy the front, and the laboratories the rear wing.

Especial care has been given to lighting and ventilation, the laboratories being lighted on three sides. For the removal of noxious gases, they are amply provided with hoods, each of which has a separate flue leading to a tight wooden fume-box located just under the roof. This box communicates with the outer air, and can be provided with forced draught if necessary.

Each student will be allowed at least four feet of desk space, and will be provided with gas, water, and a separate locker.

There are three lecture-rooms, the largest with a seating capacity of about one hundred.

The Laboratory for Elementary Chemistry occupies the entire lower floor of the rear wing, and will accommodate about 229 students. The upper floor of this wing is devoted to the qualitative and quantitative laboratories, having working space for 30 and 60 students respectively. The remainder of this wing is occupied by a research laboratory and a room set apart for the use of hydrogen sulphide.

Stock-rooms provided with a freight lift, are placed convenient to the laboratories.

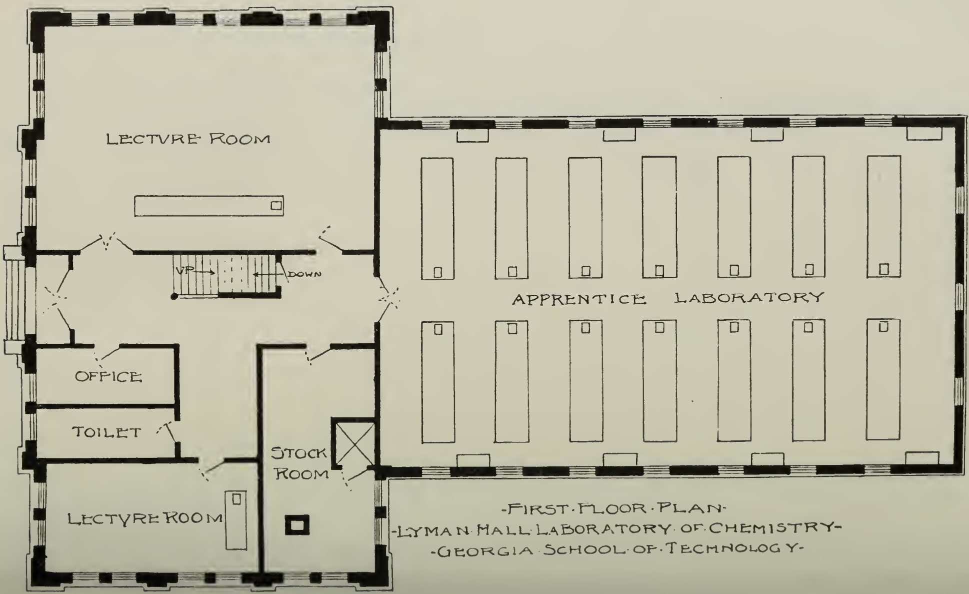
The balance-room is located so as to secure light from the northeast. It is provided with double-door, to prevent access of laboratory fumes, and a pier of masonry, free of all contact with the building. Upon the latter the most delicate weighings may be carried out without interference of vibrations.

A reading-room on the second floor contains the leading current journals and reference books relating to Chemistry.

A special room is devoted to organic combustions and gas analysis, and there are dark-rooms for spectroscopic work and photography.

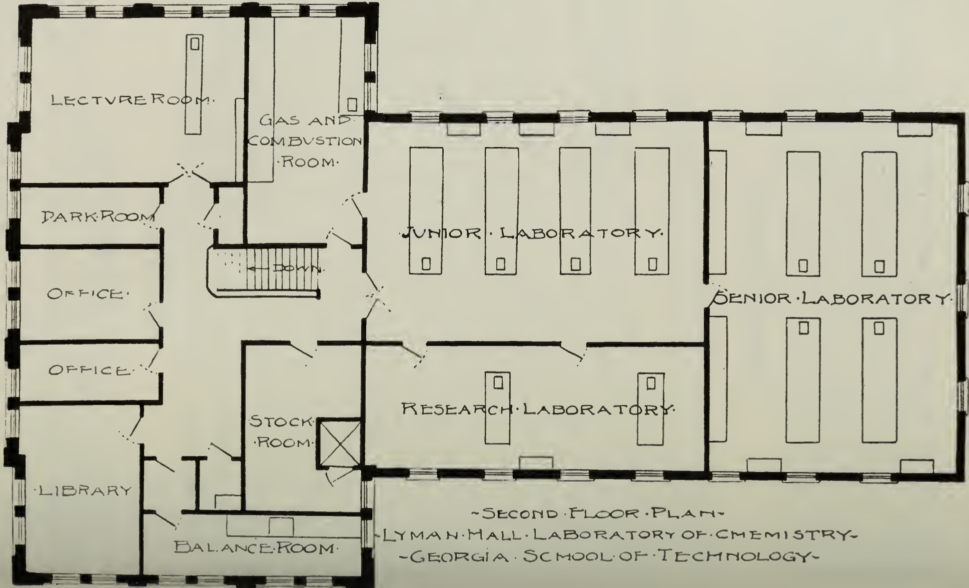
The large basement in the rear wing allows ample room for an assay plant and additional facilities to be added later.

The beautiful new Carnegie Library building will be completed before the end of the present session. During the summer months, it will be fully equipped with the most modern library appliances, and will be put in use at the beginning of the Fall term in September. The building is constructed of pressed brick with ornate limestone trimmings, and is a model of beauty and convenience. In the full basement are assembly and club-rooms, binding, storage and janitor's rooms, while the



-FIRST·FLOOR·PLAN-
-LYMAN·HALL·LABORATORY·OF·CHEMISTRY-
-GEORGIA·SCHOOL·OF·TECHNOLOGY-

IO
LIBRARY



~SECOND · FLOOR · PLAN~
~LYMAN · HALL · LABORATORY · OF · CHEMISTRY~
~GEORGIA · SCHOOL · OF · TECHNOLOGY~

THE
JOHN CRERAR
LIBRARY

first story contains the handsome reading rooms, librarian's office, stack and seminar rooms. The building is seventy-five and one-half feet front, by fifty-eight feet deep.

Equipment.

The Mechanical, Electrical, Chemical, Experimental, and Physical laboratories have been fitted up with reference to practical work, and such additions will be made from time to time as may be required for experimental research. The apparatus and appliances are of the newest and best forms, and will be increased as occasion may demand.

The workshops have been equipped with machinery and tools from the best makers, and of the latest pattern, at a cost of over twenty-five thousand dollars. In pursuance of the fundamental idea of giving the student access to the best machinery, and experimental knowledge of the best methods of mechanical work, the Trustees have put the Mechanical Department on a footing with the most improved and complete shops in the country, and scarcely any process requiring fine material and accurate workmanship is beyond its capacity.

The shops of the institution have already won an enviable reputation for the quality of their iron and brass castings, perfection in gear-cutting, and the beauty and variety of their wood and other work.

The Textile building has an unsurpassed equipment of cotton manufacturing machinery, listed elsewhere.

Degrees Conferred.

The degrees conferred are as follows: Bachelor of Science in Mechanical Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Textile Engineering, Bachelor of Science in Mining Engineering, Bachelor of Science in Engineering Chemistry, and Bachelor of Science in Chemistry.

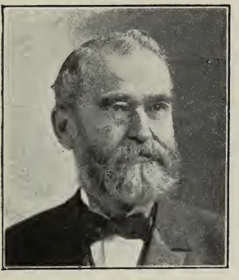
Medals.

A medal is awarded annually by the New England Manufacturers' Association to the Textile graduate who shows highest excellence in his work.

A handsome gold medal is awarded annually by Mr. Walter P. Andrews, of Atlanta, to the graduate who has made the highest record in pure Mathematics.

Publications.

The Georgia Tech is a bi-monthly publication, edited and managed by a duly elected student staff. It deals with school affairs, and also contains articles upon scientific and engineering topics, contributed by students, alumni, and members of the Faculty. Students will be encouraged to publish an annual during the next scholastic year.



MR. AARON FRENCH.

The A. French Scholarships.

MR. AARON FRENCH, of Pittsburg, Pa., gave three scholarships to the Georgia School of Technology, which are self-perpetuating, in that the beneficiary refunds the money after graduation in payments of small monthly notes without interest.

The conditions under which the scholarships are awarded are as follows:

1. The applicant must be at least sixteen years of age.
2. No one is eligible whose family pays taxes on more than $3,000 worth of property. (Affidavits from city and county tax-collectors to this effect are required.)
3. The scholarships are to be awarded by competitive examinations in the subjects for entrance to the Freshman Class. (See page 105.)

SCHOLARSHIP NUMBER 1.

The competitive examination for scholarship number one was held at the School in the fall of 1898, and was won by Mr. W. E. Klein, of Atlanta. He graduated in 1902, and in the fall of that year, September 24, the scholarship was won by Mr. W. C. Appleby, of Winder, Ga. Mr. Appleby graduated in the class of 1906, and the scholarship was awarded by competitive examination September 26, 1906, to Mr. W. M. Fellers, of Jacksonville, Fla.

SCHOLARSHIP NUMBER 2.

The competitive examination for scholarship number two was held at the School Wednesday, September 26, 1900, under the conditions named above, and was won by Mr. G. A. Harbour, of Atlanta. He graduated in 1904, and another competition took place September 28, in that year, and was won by Mr. G. W. Gibbs, of St. Augustine, Fla.

SCHOLARSHIP NUMBER 3.

The competitive examination for scholarship number three was held at the School September 24, 1902, and was won by Mr. Arnold Wells, of Belton, Texas. Mr. Wells graduated in the class of 1906, and the scholarship was awarded by competitive examination held September 26, 1906, to Mr. A. J. Philips, of McRae, Ga.

Scholarships are Limited to no State or Section of the Country.

The winners of these scholarships will be furnished funds at such times as the President may think necessary for expenses, books, fees, etc., but not over $125.00 will be furnished each year.

No formal application for entrance into the competitive examination is necessary. The presence of the applicant at the School at 9 a. m., on the opening day of the fall term, will entitle him to admission to the examinations.

The T. W. Smith Scholarship.

On January 27, 1906, Mr. T. W. Smith gave a scholarship to the School, self-perpetuating on the basis of the French scholarships. Applicants must come from the Second and Fourth Congressional districts of the State of Georgia, and the successful candidate is allowed $150 per annum for a period of four years. In the competitive examination held September 20, 1906, Mr. M. C. Meadows, of Carrollton, Ga., won the scholarship.

Sessions and Terms.

The session begins the last Wednesday in September, and ends the Thursday before the fourth Wednesday in June. It will be divided into two nearly equal terms. There will be an intermission at Christmas, as indicated in the Calendar.

All students are required, and all applicants are requested to be present at the opening hour of each session, as punctuality operates to their advantage in many ways.

Admission.

Applicants for admission to the Georgia School of Technology must be at least sixteen years of age, and must be of good moral character. There are two methods of entering: First, by examination; second, by certificate.

1. BY EXAMINATION.

Applicants for the Apprentice class and Special Textile class must pass satisfactory examinations in (a) Arithmetic, including common and decimal fractions, compound numbers, percentage, ratio, proportion, square root, cube root, and mensurations (Accuracy and speed of work are desired.); (b) United States History; (c) a theme on some assigned topic of national history, which will be required of each applicant as an evidence of his ability to express himself intelligently.

Applicants for the Freshman Class must pass a satisfactory examination in each of the following: (1) Elements of Algebra to simultaneous quadration; (2) Plane Geometry; (3) Arithmetic; (4) English Grammar; (5) Classics: familiarity with Burke's Speech on Conciliation, Julius Caesar, Milton's Minor Poems, Macaulay's Essay on Addison, and Macaulay's Essay on Johnson.

Candidates for admission to advanced classes must show that they are qualified to enter the class for which they apply.

2. BY CERTIFICATE.

The Faculty of the Georgia School of Technology desires to bring the School into closer relations with the high schools of the State, hoping thereby to make the transition from the latter to the former easier for the student. Therefore, the privilege of becoming accredited, by which graduates of schools can enter without examination, is extended to those high schools on the accredited list of the University of Georgia which include in their course of study the following:

(1) One and one-half units of Algebra to simultaneous quadratics.

(2) One unit of Plane Geometry.

(3) One unit of Arithmetic.

(4) One unit of English Grammar.

(5) One unit of Classics, including the College Entrance Requirements in English as indicated "for careful study."

A unit shall be not less than five periods per week of forty minutes each for a school year of at least eight months, or its equivalent. It is absolutely necessary that schools comply with the time requirements indicated.

Principals and superintendents desiring to have their schools placed on the accredited list will communicate with Prof. J. S. Stewart, State Agent for the University of Georgia, Athens, Ga.

Principals or superintendents will send to the Registrar of the Georgia School of Technology the certificates of such students in their schools as desire to enter. This should be done in June. Blank certificates for the purpose must be obtained from Prof. Stewart. The student must present himself for admission within one year after leaving the high school.

The work done by its graduates is ultimately the genuine test of the character of the preparation given by a high school. If, therefore, the students accepted from an accredited school shall be found deficient in preparation, that school must expect to be dropped from the list.

The following are the accredited schools:

List of Accredited High Schools of the University of Georgia and Associated Institutions

E., English; M., Mathematics; H., History; L., Latin; B., Botany; Ph., Physical Geography; P., Physics; G., German; Gr., Greek; Sp., Spanish; F., French; C., Chemistry; Ag., Agriculture; D.P., Department Plan.)

NAME.	PRINCIPAL.	TEACHERS.
Adel High School E., M., Ph., H., L., D.P.	T. M. Holland, A.B.	2 Teachers
Albany High School E., M., Ph., P., H., L., F., D.P.	B. T. Hunter, A.M.	4 Teachers
Furlow High School, Americus E., M., Ph., C., H., L., D.P.	J. A. Duncan, A.B.	5 Teachers
Athens High School E., M., Ph., P., L., Gr., D.P.	F. M. Harper, A.M.	4 Teachers
Boys High School, Atlanta E., M., Ph., C., B., H., L., Sp., Gr., D.P.	W. M. Slaton, A.M.	10 Teachers

NAME.	PRINCIPAL.	TEACHERS.
Marist College, Atlanta E., M., Ph., P., H., L., Fr., G., D.P.	Geo. S. Rapier, S.T.B.	6 Teachers
University School, Atlanta E., M., Ph., H., L., Gr., D.P.	C. C. Wright, A.M.	2 Teachers
Peacock's School, Atlanta E., M., Ph., P., H., L., Gr., D.P.	D. C. Peacock, A.B.	4 Teachers
Tubman High School, Augusta E., M., Ph., P., C., H., L., F., D.P.	T. H. Garrett, A.M.	7 Teachers
Richmond Academy, Augusta E., M., Ph., P., H., L., F.	Chas. H. Withrow, A.M.	5 Teachers
Ga.-Southern Military School, Bainbridge. E., M., Ph., P., H., L., F., G., B., D.P.	J. A. Caldwell, A.B.	4 Teachers
Gordon Institute, Barnesville E., M., P., C., H., L., F., Gr., D.P.	Chas. M. Neel, A.M.	5 Teachers
Presbyterian Institute, Blackshear E., M., P., Ph., L., Gr., D.P.	C. A. Snyder	3 Teachers
Blakely High School E., M., Ph., H., L.	W. R. Lanier, B.S.	3 Teachers
Boston High School M., E., M., Ph., H., L., G., D.P.	W. E. Nichols, A.B.	2 Teachers
Broxton Institute E., M., Ph., H., L., D.P.	F. F. Farmer, A.B.	4 Teachers
Glynn High School, Brunswick E., M., Ph., P., C., H., L., Gr., D.P.	N. E. Ware	7 Teachers
Calhoun High School E., M., Ph., P., C., H., L., Gr., D.P.	A. N. Swain, A.B.	2 Teachers
Carrollton High School E., M., Ph., P., C., H., L.	C. K. Henderson, A.B.	3 Teachers
Hearn Academy, Cave Spring E., M., Ph., C., H., L., Gr., D.P.	R. W. Edenfield, A.B.	2 Teachers
Georgia Military Academy, College Park E., M., Ph., P., C., H., L., Gr., D.P.	J. C. Woodward, A.M.	8 Teachers
Columbus High School E., M., Ph., P., C., B., H., L., F., Sp., G., D.P.	W. H. Kilpatrick, A.M.	6 Teachers
Commerce High School E., M., Ph., P., B., H., L., D.P.	W. F. Brown, A.B.	3 Teachers
O'Neal High School, Cordele E., M., Ph., P., H., L., D.P.	F. E. Land, A.B.	3 Teachers
Cornelia High School E., M., Ph., P., H., L.	J. W. Marion	2 Teachers
Dallas High School E., M., Ph., H., L., Gr.	H. B. Ritchie, A.B.	2 Teachers
Dawson High School E., M., Ph., P., C., H., L., F., D.P.	R. H. Hankinson, A.B.	4 Teachers
Donald Fraser High School, Decatur E., M., Ph., H., L., G., D.P.	G. Holdman Gardner, M.A.	5 Teachers
J. S. Green Institute, Demorest E., M., P., B., H., L., G., Gr., D.P.	John C. Campbell, A.M.	7 Teachers
Douglasville High School E., M., Ph., H., L., D.P.	W. E. Dendy, A.B.	2 Teachers
Dublin High School E., M., H., L., Ph., C., Gr., F., D.P.	R. O. Whitenton, A.B.	3 Teachers
Eastman High School E., M., Ph., P., H., L., Gr., D.P.	W. A. Mulloy, A.B.	3 Teachers
Eatonton High School E., M., P., Ph., H., L., Gr.	W. C. Wright, A.B.	2 Teachers
Elberton High School E., M., P., H., L., F., B.	J. M. Stephenson, A.B.	3 Teachers

NAME.	PRINCIPAL.	TEACHERS.
Fitzgerald High School E., M., Ph., P., B., H., L., Ag., D.P.	E. E. Tyner, M.S.	3 Teachers
Banks Stephens Institute, Forsyth E., M., P., H., L., Gr., D.P.	M. C. Allen, A.B.	3 Teachers
Fort Gaines High School E., M., Ph., H., L., D.P.	Van Fletcher, A.B.	2 Teachers
Gainesville High School E., M., Ph., P., Ag., H., L., D.P.	E. J. Robeson, A.B.	3 Teachers
Griffin High School E., M., P., C., H., L., F., Gr., D.P.	J. D. Smith, A.B.	3 Teachers
Hartwell Institute E., M., Ph., H., L., Gr.	J. P. Cash, A.B.	2 Teachers
Jackson High School E., M., Ph., H., L., Gr., D.P.	W. P. Thomas, A.B.	3 Teachers
Jesup High School E., M., Ph., P., H., L., D.P.	W. D. Greene, A.B.	2 Teachers
LaGrange High School E., M., Ph., B., H., L., F., Gr., D.P.	J. E. Ricketson, B. S.	4 Teachers
Meson Academy, Lexington E., M., Ph., P., H., L., Gr.	H. B. Wallace, A.B.	2 Teachers
Locust Grove Institute E., M., Ph., H., L., Gr., D.P.	Claud Gray, A.B.	5 Teachers
Lumpkin High School E., M., Ph., P., H., L., Gr.	Ralph Newton, A.B.	2 Teachers
Gresham High School, Macon E., M., Ph., P., B., H., L., D.P.	R. J. Coates, A. B.	13 Teachers
Madison High School E., M., P., H., L., D.P.	J. D. Garner, A.M.	2 Teachers
Marietta High School E., M., Ph., P., C., H., L., Gr.	W. T. Dumas, A.M.	3 Teachers
Georgia Military College, Milledgeville E., M., Ph., P., C., H., F., D.P.	W. E. Reynolds, A.M.	6 Teachers
Moultrie High School E., M., Ph., P., H., L., Gr.	H. Johnson, A.B.	3 Teachers
Monroe High School E., M., Ph., H., L., F., D.P.	C. C. King, Ph.B.	3 Teachers
McDonough High School E., M., Ph., Ag., B., H., L., Gr., D.P.	Geo. W. Camp, A.B.	2 Teachers
Newnan High School E., M., Ph., P., H., L., D.P.	J. W. Gaines, A.B.	3 Teachers
Nannie Lou Warthen Institute		
Pelham High School M., Ph., H., L., D.P.	T. H. Wilkinson	2 Teachers
Boys' Industrial School, Rome E., M., Ph., P., H., L., B., Ag., D.P.	G. W. Douglas, A.B.	8 Teachers
Rome Public High School E., M., Ph., P., H., L., D.P.	W. P. Jones, A.B.	4 Teachers
Royston High School E., M., Ph., H., L., Gr., D.P.	J. A. Hunter, A.B.	2 Teachers
Sandersville High School E., M., Ph., P., C., H., L., F., Gr.	W. C. Goodwin	4 Teachers
Chatham Academy, Savannah E., M., Ph., P., C., L., D.P.	H. F. Train	10 Teachers
Sparta High School E., M., Ph., P., H., L.	J. H. Smoot, A.B.	2 Teachers

NAME.	PRINCIPAL.	TEACHERS.
Statesboro High School E., M., Ph., H., L., D.P.	G. B. Franklin F. A. Brinson, A.B	2 Teachers
University School for Boys, Stone Mtn. E., M., Ph., P., B., H., L., F., G., Gr., D.P.	W. B. Griffin, A.M.	6 Teachers
Tallapoosa High School E., M., Ph., L.	A. L. Brewer, A.B.	2 Teachers
Tennille High School E., M., H., L., Ph.	H. B. Bible, Ph.B.	2 Teachers
Thomasville High School E., M., Ph., P., Ag., H., L., Gr., D.P.	W. B. Davis	3 Teachers
R. E. Lee Institute, Thomaston E., M., Ph., P., C., H., L., Gr., D.P.	F. F. Rowe, A.M.	3 Teachers
Tifton High School E., M., Ph., P., H., L.	Jason Scarboro	2 Teachers
Valdosta High School E., M., Ph., P., H., L., D.P.	W. O. Cheney, A.B.	4 Teachers
Vidalia Institute E., M., Ph., P., H., L., Gr.	E. L. Ray	3 Teachers
Vienna High School M., L., Ph., Gr.	C. G. Power	2 Teachers
Wadley High School M., H., L., Ph., P.	A. F. Ware	2 Teachers
Warrenton High School E., M., P., H., L., D.P.	H. B. Carreker, A.B.	2 Teachers
Washington High School E., M., Ph., P., H., L., Gr., D.P.	T. G. Wilkinson, A.B.	3 Teachers
Waycross High School E., M., Ph., P., H., L., Ag., D.P.	D. C. Colson, A.B.	5 Teachers
Waynesboro High School E., M., Ph., P., H., L., C., F.	H. J. Gaertner, Ph.D.	2 Teachers
West Point High School E., M., P., H., L., D.P.	J. E. Purks, A.B.	4 Teachers
Winder High School E., M., Ph., H., L., D.P.	H. R. Hunt, A.B.	2 Teachers
Winterville High School E., M., H., L.	T. R. Edwards, A.B.	2 Teachers
Wrightsville E., M., Ph., P., C., B., H., L., Gr., D.P.	William F. Quillian, A.B.	4 Teachers

EXAMINATIONS.

While students may enter at any time and be examined on entrance, two general entrance examinations will be held: one at the time of the final examinations for the school session, about June 10, and the other at the opening of the fall term, September 25. Applicants for admission to Apprentice and higher classes will be admitted to either or both of these examinations.

Final examinations are held at the end of each term. Students are liable to be dropped from the roll of their class at any examination when they do not meet the requirements, and at any time when they neglect their studies and fall hopelessly behind their classes. No tuition or fees are refunded under such circumstances. All examinations are written.

Good-Record Certificate.

All new students must present a certificate from the last school they attended, stating they left in good standing with the authorities.

Reports.

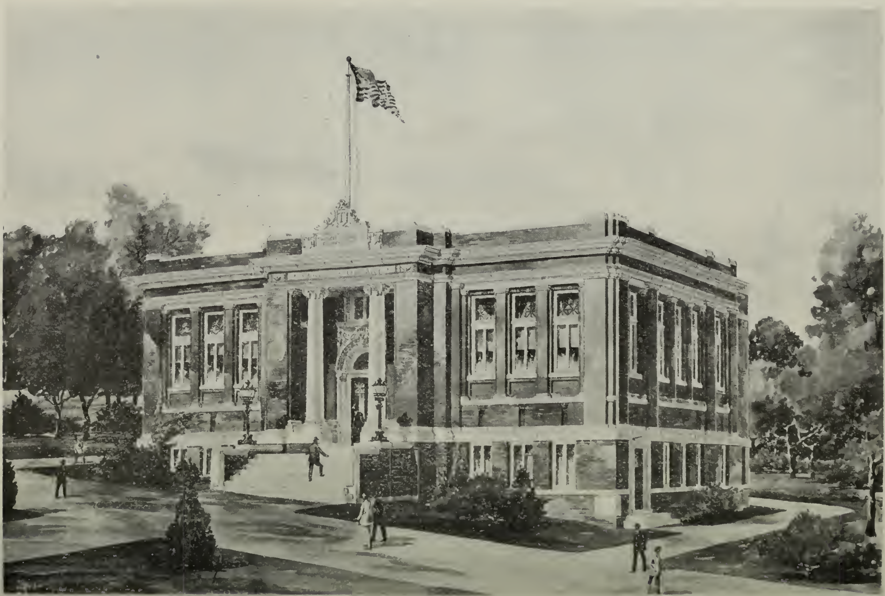
Reports of the standing of students are issued at the close of each term.

Bulletin-boards are placed in the halls of the Academic building, and upon these are posted each month the grading of students as ascertained by the monthly examinations.

Whenever a student is deficient in any study or department at the close of any month, a report of such fact is sent to his parents.

Library and Reading Room.

The School is now supplied with a well-organized and well-selected library of over 3,500 volumes. This acquisition is due



LIBRARY BUILDING.

largely to the generosity of local friends who have responded to appeals for aid. In addition to the donations in cash and in books already received, the further contributions constantly being made promise well for the future growth of the library. Valuable literary and scientific reference-books have been acquired, and departments established in fiction, history, biography, travel, philosophy, and natural science.

The library is in charge of a competent and thoroughly-trained librarian. All books and pamphlets, as soon as received, are classified and catalogued in accordance with the most approved card system.

Library hours daily are from 9:00 a. m. to 5:00 p. m.

There has been established in connection with the library a handsomely furnished and well-equipped reading-room, supplied with some fifty of the leading papers and periodicals of this country and England. Additions to the reading-matter will be made from time to time. As indicated elsewhere, through the generosity of Mr. Andrew Carnegie, a handsome library building costing $20,000 is in course of erection and will be ready for occupancy in September, 1907.

Atlanta Carnegie Library.

In addition to the School library, students have free use of the Atlanta Carnegie Library, where they are always welcome. This library contains 40,000 volumes, and, besides many books of reference added within the past year, a large number of very valuable technical works have been purchased and have been made available to students.

Tuition and Fees.

Each county in the State is entitled to fifteen free scholarships.

These scholarships will be awarded on the ground of excellence in character and preparation, and time of entrance.

The amount of tuition charged to the excess of fifteen from a county of this State is $25.00 per annual session.

Residents of other States pay a tuition fee of $100.00 per year in addition to the fees of $25.00 and $5.00 mentioned below.

Every student, of whatever place of residence, pays an annual fee of $25.00 to cover contingent expenses. Half of this amount is payable on entrance, and the remainder on or before the first Saturday after February 10.

A contingent fee of $5.00 will be required to be deposited with the treasurer on entrance, to cover injury done College buildings or furniture, which sum will be returned to the student on leaving, if not forfeited.

All students will be required to deposit at the beginning of the fall term—

$12.50 of the annual fee,
$5.00 damage fee, unless already deposited,
$12.50 of the tuition fee, if subject to tuition;

And on or before the first Saturday after February 10—

$12.50 of the annual fee,
$12.50 of the tuition fee, if subject to tuition.

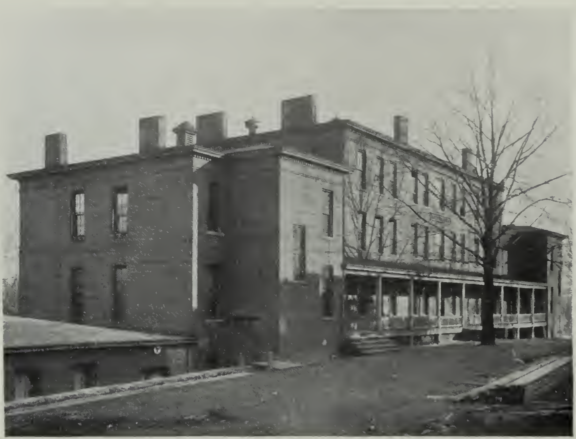
Residents of other States are subject to the above requirements, substituting $50.00 for the amount of the tuition fee per half year.

Each member of the Senior class must pay a diploma fee of $5.00 before graduating.

Until the above requirements are complied with, no student will be allowed to participate in the duties and recitations of his class.

The student is advised to defer the purchase of drawing instruments and materials until he can have the direction of the professors in their selections. The prices range from $8.00 to $15.00.

SWANN DORMITORY.



KNOWLES DORMITORY.

Text-books and stationery can be purchased from the Quartermaster at reasonable rates. The student is advised, however, to bring such scientific books as he may possess.

No fees are refunded to students who are required to leave for deficiency in conduct, in shop or mill work, or in studies, or who may withdraw for any reason, except for disabling sickness, properly certified to by a reputable physician. In the latter event, an equitably prorated amount will be refunded.

Dormitories.

All students in the Apprentice and Freshman classes who do not reside with their parents, relatives, or guardians are required to board in the School dormitories.

This regulation was passed by the Board of Trustees April 2, 1902, after a careful examination of the advantages and protection afforded by the dormitories to students of the two lower classes, and all such students as are physically or otherwise unable to comply with the law, will not be retained in the School.

Beginning with the next session, only two men will be assigned to a room, and students of the higher classes will not be accommodated in the dormitories until all eligible lower classmen have been assigned rooms. Students to the number of sixty, living in the vicinity of the School, however, will be accommodated with table board in the dining-hall at the rate of $12.00 each per month—the privilege to be accorded in the order of application.

Board and Expenses.

The School is provided with dormitory accommodations for nearly two hundred students. The rooms are well lighted and ventilated. Hot and cold shower-baths are accessible to all students, in a new and well-heated bath-room.

The price of board, including laundry, fuel, and lights, is $15.50 per month payable in advance. As the dormitories are conducted on a strictly mutual plan and without financial profit to the School, the right is reserved to increase above charge should it prove insufficient to meet operating expenses. This contingency is not probable, however. As stated elsewhere, table board at the rate of $12.00 per month, in advance will will be allowed sixty students not living in the dormitories.

Board is not refunded to students unless they have been absent over ten days.

All students who desire rooms in the dormitories must write and secure them before reporting for duty, as the dormitories do not accommodate one-half of the students who are in the institution.

Students who board in the dormitories are required to furnish the following articles: One pillow, three pillow-cases, four sheets, blankets or comforts, six towels, and any other small and portable articles needed about their rooms. The articles named should be brought from home. The school furnishes with each room: Beds (single three-quarter width), mattresses, springs, wardrobe or closet, washstand, bureau, and table.

With the information given above, students may easily come to Atlanta without preliminary correspondence and be located, at least temporarily, a few hours after their arrival.

Each member of the Freshman class must provide himself with gymnasium suit and shoes, the total cost of which is about $2.00.

Each student should have two suits of overalls, costing about $1.00 each.

For prices of drawing materials and drawing instruments (Freshman class), see page —.

The cost of books, etc., in the Freshman year is relatively large on account of the purchase of drawing instruments.

Discipline and Dormitory Regulations.

The students of the School have a record for good conduct unsurpassed by any corps in the country.

They are required to obey but few regulations, the authorities bearing in mind the development and best interest of the student-body.

Every man is expected to conduct himself in a gentlemanly manner. When he fails in this and convinces the authorities that he has not come to work, his parents are requested to withdraw him.

Special Textile students and students having but few lessons to prepare will not be admitted to the dormitories.

Patrons or prospective patrons will be furnished upon application with the printed Rules and Regulations of the School.

Specimen Examinations for Entrance.

Apprentice Class and Special Textile Course, Pages 83 and 97.

FALL ENTRANCE--Arithmetic.

1. How many acres in 1 mile of road 3 rods wide?

2. Change $\frac{6}{11\frac{1}{2}}$ to a fraction whose denominator is 46.

3. A. is 1760 yards behind B. and they are going in the same direction. If A.'s rate is to B.'s as $1\frac{6}{7} : \frac{9}{21}$, how far must each travel before A. overtakes B.?

4. From 5.062 take 2.1¼ and express the result in a common fraction in hundredths.

5. A cubical cistern holds 1331 cubic yards; how deep is it?

6. Two cogged wheels, of which one has 16 and the other 17 cogs, work in each other. If the latter turns 80 times in ¾ of a minute, how often does the former turn in 8 seconds?

FALL ENTRANCE--U. S. History.

I. (a) Tell when and how America was discovered.

(b) Who was De Soto? La Salle? Sir Walter Raleigh? John Rolfe?

II. What was the cause and result of King William's War? Queen Anne's War? King George's War? The French and Indian War?

III. Describe two of the principal battles of the Civil War.

IV. Name three prominent statesmen of the Confederacy and tell what you can of their public career.

V. (a) What generals of the Civil War became presidents?

(b) What was the Fugitive Slave Law? The Missouri Compromise?

VI. (a) Tell the time and occasion of Lincoln's assassination.

(b) Why was President Johnson impeached?

VII. (a) What are the three branches of the present government?

(b) Who succeeds the President in case of death?

VIII. (a) Name several important inventions of the 19th Century.

(b) What is the present population of the country?

Topics Suggested for Theme-Writing.

1. Captain John Smith's career in America.
2. Puritan Colonial Customs.
3. The first Iron-Clads.
4. The rapid settlement of the West.
5. The South's view of Secession.
6. Inventors who have done most for the country.

Freshman Class.

FALL ENTRANCE--Geometry.

1. The diagonals of a regular pentagon form by their intersection a second regular pentagon.

2. OC is a line drawn from the center of a circle to any point of the chord AB. Prove

$$\overline{OC}^2 = \overline{OA}^2 - AC.CB.$$

3. To construct a polygon similar to two given similar polygons and equivalent to their sum.

4. Describe a circle passing through two given points and tangent to a given line.

5. The bisector of the exterior angle of a triangle divides the opposite side how? Prove.

6. The square of the side opposite an obtuse angle of a triangle is equal to what? Prove.

7. On a given line to construct a segment of a circle that shall contain a given angle.

FALL ENTRANCE--Algebra.

1. Get cube root of $8x^3-12x^2+3x-25+30x^{-1}+12x^{-2}+8x^{-3}$

Write answer with + exponents.

2. (a) Simplify $\frac{3+2\sqrt{-1}}{2-5\sqrt{-1}}+\frac{3-2\sqrt{-1}}{2+5\sqrt{-1}}$

(b) Combine $\frac{1}{2}\sqrt{\tfrac{3}{4}}+\frac{1}{2}\sqrt{\tfrac{1}{3}}-\frac{1}{2}\sqrt{\tfrac{3}{25}}$

3. Factor (a) $12x^2-11xy+2y^2$

(b) $64a^6-729b^{12}$

4. Factor (a) $x^8-47x^4y^4+y^8$

(b) $a^3-b^3+a^4+a^2b^2+b^4$

5. Simplify $\left\{\left(\frac{x^{-4}}{y^{\frac{1}{3}}}\right)^{-3} \div c\,\frac{\sqrt{x-\tfrac{1}{3}}}{x^{\frac{2}{3}}c^2y^{-3}}\right\}^6$

6. Solve $\frac{2a^2}{\sqrt[3]{x}}=a\sqrt{x}+\sqrt[3]{x^4}$

7. For a certain time and rate $1,000 amounts to $1,060 at simple interest. Find the time and rate if the principal is doubled by decreasing the rate 11 per cent. and increasing the time 19 years.

8. Two trains, 100 feet long and 80 feet long, running at uniform rates on parallel tracks, are seen to pass each other in 2 seconds when running in opposite directions, and in 7 seconds when running in the same direction. Get velocity in feet per second of each train.

Freshman Class.

FALL ENTRANCE--English.

(English Grammar.)

I. Name and define the Parts of Speech. What parts of speech are inflected, and what name is given to the inflexion in each instance?

II. Into what classes are nouns divided? Mention four ways of forming the plural of nouns. Three ways of distinguishing their gender by their form. Inflex *duke, Norman, son-in-law, woman-servant.*

III. Name with examples five classes of pronouns. Inflect the personal pronouns and *who.* How do the relatives differ in use?

IV. Give five noun constructions requiring the nominative case; five requiring the objective case. Parse the nouns and pronouns in: But me no buts. He waited a year; then declared himself the murderer. The day being foggy, the hill seen through the mist seemed a mountain.

V. Parse the adjectives in:

“And his droop’d head sinks gradually low,
And through his side the last drops, ebbing slow
From the red gash, fall heavy, one by one,
Like the first of a thunder shower.”

VI. What do adverbs modify? Write an illustration of each use. Inflect *well, ill, much, heavy.* Name with examples the two general classes of conjunctions.

VII. Define the terms: Transitive Verb, Intransitive Verb, Auxiliary Verb, Impersonal Verb, Passive Voice. Write the indicative mode of *shake;* the subjunctive of *be.*

VIII. What are participles and infinitives? Parse the participles and infinitives in: "Desiring to succeed makes it possible for us to succeed, though the noblest desire to work can often do nothing but wait; still, fearing nothing let us face the future, remembering that to dare will be to do—God willing."

IX. What is a phrase, a clause, a sentence? As what parts of speech may a phrase be used? Use *where the battle was fought* as a noun, as an adjective, as an adverb.

X. How are sentences classified, according to form, or structure; according to use? Define each class. Analyze:

"Sweet are the uses of adversity,
Which like the toad, ugly and venomous,
Wears yet a precious jewel in his head."

Freshman Class.

FALL ENTRANCE.

(English Classics.)

JULIUS CAESAR.

1. How is Cæsar's popularity shown in the first scene?
2. Mention the different warnings given Cæsar that his life is in danger.
3. Relate the incidents of the assassination.
4. Describe the fight at Philippi, and tell of the fate of the defeated leaders.

MACAULAY'S ESSAY ON ADDISON.

1. Give some account of the early life of Addison.
2. What else besides literature occupied his maturer years, and what success did he attain in its pursuit?

3. What are his best literary works?
4. Write a character-sketch of Addison, and give an account of his last days.

MACAULAY'S LIFE OF SAMUEL JOHNSON.

1. About what time did Johnson live, and who were some of his contemporaries?
2. Sketch his life through his school days.
3. Name some of his most prominent characteristics as a man.
4. Name his three best works.

CONCILIATION WITH AMERICA.

1. Why does Burke think that force should not be used against America?
2. What three possible methods of dealing with America are mentioned, and which does he urge?
3. Give briefly three of the strongest arguments for conciliation.

LYCIDAS.

1. Relate the circumstances that led to the writing of the poem.
2. Why, in beginning, address *laurels, myrtles,* and *ivy?*
3. Explain the italicised words:

   "I come to pluck your berries *harsh* and *crude,*
   And with *forced* fingers *rude*
   Shatter your leaves *before the mellowing year.*"
4. In what connection does the author mention the English clergy, and what does he say about them?
5. Explain the italicised words:
   (*a*) "For we were nursed upon the selfsame hill, etc."
   (*b*) "To sport with *Amaryllis* in the shade,
   Or with the tangles of *Neaera's* hair."
   (*c*) *The Pilot of the Galilean Lake.*

Students Societies.

The Young Men's Christian Association, a non-sectarian and voluntary organization of students, has rooms in the basement of the new Library building. It organizes and conducts Bible study among the students, having four different courses of study. These classes are well attended and are doing thorough work. The membership therein is not restricted to association members, but is open to all students. Every Tuesday evening at 6:45, the Association has a devotional meeting, which is conducted entirely by students. It has a well organized orchestra, and extends to its members the use of tennis courts, basket-ball, telephones, game tables, daily papers, and exchange tables.

The Association employs as General Secretary Mr. J. L. Neill, a graduate from one of our best Southern colleges, who gives his whole time to religious work among the students on the campus.

Following is the Budget for the year 1906-1907:

Budget.

Of Young Men's Christian Association, Georgia School of Technology.

For the Year 1906-1907.

Receipts.

Student Dues	$ 250.00
Student Subscriptions	50.00
Faculty Subscriptions	200.00
City Sunday Schools	75.00
Board of Trust	300.00
Business Men	150.00
Private Subscription	115.00
Hand Book	90.00
Total	$1,230.00

Expenditures.

Evangelistic and Special Meetings	$ 50.00
Piano	30.00
Student Conference	150.00
International and State Committees	15.00
Printing	25.00
Social Committee	25.00
Telephone	50.00
Hand Book	90.00
Reading Room	15.00
General Secretary's Salary	750.00
Miscellaneous	30.00
Total	$1,230.00

A Word to Parents.

See that your son has a Bible.

See that he has two dollars with which to join the Y. M. C. A.

A Word to the New Student.

Ask for the General Secretary or one of the officers of the Y. M. C. A. when you arrive, and they will give you any needed information you wish.

Join the Association.

Join a Bible Study Group.

J. L. Neill,
General Secretary.

LITERARY SOCIETY.

The Criterion Literary Society is organized to promote among its members experience in debating, extemporaneous speaking, and essay writing. The Society meets every Monday afternoon at 4 o'clock.

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REGISTER OF GRADUATES.

Name, and County from which appointed	Class	Degree B.S.in	Occupation
George G. Crawford Wilkinson	'90	M.E.	Manager, National Department National Tube Company, comprising National Tube Works, National Rolling Mills, Monongahela Furnaces, Monongahela Steel Works, Boston Iron and Steel Works, Republic Iron Works, National Galvanizing Works, McKeesport (Pa) U. S. Steel Corporation.
Henry L. Smith .. Rockdale.	'90	M.E.	President and Treasurer of H. L. & M. D. Smith Co., Manufacturers, Dalton, Ga.
Percy C. Brooks . DeKalb.	'91	M.E.	Manager Fairbanks-Morse Canadian Mfg. Co. Ltd., Toronto, Canada.
Julius L. DeGive... Fulton.	'91	M.E.	Manager Grand Opera House, Atlanta, Ga.
W. H. Glenn...... Fulton.	'91	M.E.	Superintendent Roadway Georgia Railway & Electric Co., Atlanta, Ga., Chief Eng. Atlanta Northern Ry. Co.
J. D. Goldsmith... Fulton.	'91	M.E.	With Southern Railway Shops, Atlanta, Ga.
J. H. Jones....... Fulton.	'91	M.E.	Assistant Engineer, New Soddy Coal Co., Soddy, Tenn.
J. B. McCreary.... Coweta.	'91	M.E.	Consulting Engineer Water, Lights, Sewerage, Empire Bldg., Atlanta, Ga.
J. S. Moore....... Thomas.	'91	M.E.	Mechanical Engineer, Palatka, Fla.
C. M. Pritchett.... Bartow.	91	M.E.	With J. E. Serrine, Mill Architect and Engineer, Greenville, S. C.
C. E. Ard .... Stewart.	'92	M.E.	Professor of Physics and Electrical Engineering, Agricultural College, Miss.
J. W. Bridge...... Fulton.	'92	M.E.	Mechanical and Electrical Engineer, United Coal Co., Naome Coal Co., Jerner-Quemahoming Coal Co., Pittsburg & Baltimore Coal Co., Pittsburg, Pa.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
A. R. Colcord..... Dodge.	'92	M.E.	President Colcord Lumber Co., Atlanta, Ga.
E. W. Collins ..... Cobb.	'92	M.E.	Superintendent American Chemical & Milling Co., Atlanta, Ga.
E. H. Davis ...... Putnam.	'92	M.E.	Superintendent Towaliga Falls Power Co., Griffin, Ga.
C. E. Fairbanks... DeKalb.	'92	M.E.	Chief of Electrical Equipment, New York & New Jersey Telephone Co., Newark, N. J.
George Freeman .. Chatham.	'92	M.E.	Deceased.
Wm.A.Hansell, Jr. Fulton.	'92	M.E.	Civil Engineer and Superintendent of Construction, Fort McPherson, Ga.
N. B. Hudson..... Rockdale.	'92	M.E.	With R. D. Cole Mfg. Co., Newnan, Ga.
M. W. Johnson, Jr. Fulton.	'92	M.E.	Special Draughtsman, Joilet Works, Illinois Steel Co., Chicago (of U. S. Steel Corporation), Joliet, Ill.
C. B. Little....... Putnam.	'92	M.E.	Asst. Supt. and Mechanical Engineer Brownell Co., Engine and Boiler Manufacturers, Dayton, Ohio.
M. M. Pearson.... Tattnall.	'92	M.E.	Draughtsman, General Electric Co., Schenectady, N. Y.
J. G. Rossman .... Greene.	'92	M.E.	Consulting Engineer, Water Power & Electric Properties, 25 Broad St., New York.
T. F. Scully ...... Fulton.	'92	M.E.	Deceased.
J. B. Sherard. .... Jackson.	'92	M.E.	With Newport News Ship-Building & Dry Dock Co., Newport News, Va.
W. P. Walthall ... Campbell.	'92	M.E.	With Forrest and George Adair, Real Estate Agents, Atlanta, Ga.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
Z. Whitehurst .... Wilkinson.	'92	M.E.	Wholesale and Retail Druggists, and Partner of Whitehurst Vehicle Co., Dublin, Ga.
F. E. Whitney.... Richmond.	'92	M.E.	Master Mechanic, West Penn. Railways Co., Connellsville, Pa.
A. D. Black....... Floyd.	'93	M.E.	Asst. Engineer, Dist. Engineer Corps, District of Columbia, Washington, D. C.
E. E. Davis....... Chatham.	'93	M.E.	Deceased.
S. F. Jeter........ Fulton.	'93	M.E.	Mechanical Engineer, The Bigelow Company, New Haven, Conn.
Joe W. Little ..... Fulton.	'93	M.E.	President Southern Construction Co., Atlanta, Ga.
H. L. Long, Jr.... Lee.	'93	M.E.	Doctor of Medicine, Leesburg, Ga.
M. W. McRae..... Bibb.	'93	M.E.	Contractor, Colonia, City of Mexico, Mexico.
H. H. Miles....... Fulton.	'93	M.E.	Second Vice-President, Blue Ridge Marble Co., Nelson, Ga.
A. R. Murray..... Cobb.	'93	M.E.	Chief Draughtsman, The Cincinnati Shaper Co., Cincinnati, Ohio.
W. J. Nalley...... Douglas.	'93	M.E.	Mechanical and Civil Engineer, Austell Building, Atlanta, Ga.
H. G. Nowell ..... Walton.	'93	M.E.	Attorney-at-Law, Member General Assembly of Georgia, Local Counsel Georgia Railroad, Vice-President Farmers Bank, Monroe, Ga.
H. T. Phillips..... Fulton.	'93	M.E.	Treasurer of Phillips & Crew Co., Atlanta, Ga.
W. O. Connor, Jr.. Floyd.	'94	M.E.	Superintendent, New Mexico Asylum for the Deaf & Dumb, Santa Fe, New Mexico.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
D. E. Duggan..... Hancock.	'94	M.E.	General Manager of the Cochran Cotton Mill, Cochran, Ga.
G. F. Forest ...... Thomas.	'94	M.E.	Mechanical Engineer and Member of Davis-Forest Machine Works, Savannah, Ga.
E. A. Green....... Clay.	'94	M.E.	Lieutenant U. S. Marine Corps, Mills Building, Washington, D. C.
T. Holmes........ McIntosh.	'94	M.E.	Southern Representative, Geo. T. Mickle Lumber Co., Chicago, Ill., and Lumber Manufacturers, Tuscaloosa, Ala.
W. W. Hunter .... Wilkes.	'94	M.E.	Assistant Engineer on Maintenance of Way, Ga. R. R., Augusta, Ga.
E. B. Merry....... Columbia.	'94	M.E.	Vice-President and General Manager South Memphis Brick Co., Memphis, Tenn.
P. Ogletree .... Meriwether.	'94	M.E.	Peach Growing, Zenith, Ga.
E. R. Whitney .... Richmond.	'94	M.E.	Engineer and Treasurer Babcock Electric Carriage Co., Buffalo, N. Y.
S. W. Allen....... Elbert.	'95	M.E.	Superintendent of the Newnan Water, Sewage and Light Commission, Newnan, Ga.
J. A. Almond ..... Elbert.	'95	M.E.	Deceased.
H. W. Clark ...... Richmond.	'95	M.E.	Manager Alabama Cotton Mills, Speigners, Ala.
J.M.Goldsmith,Jr. Fulton.	'95	M.E.	Assistant Engineer Georgia Railway & Electric Co., Atlanta, Ga.
G. H. Harrison.... DeKalb.	'95	M.E.	Rector Grace Church, Ocala, Fla.
Wm. Jessup ...... Fulton.	'95	M.E.	Manager Estimating & Sales Department, The Geo. B. Sickles Marble Co., Tate, Ga.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
J. F. Lovette...... Fulton.	'95	M.E	With Central of Georgia Railway Co., Atlanta, Ga.
C. W. McCall ..... Chatham.	'95	M.E.	Cashier for Hunter, Pearce & Battey, Cotton and Naval Stores, Savannah, Ga.
W. B. Nunnally ... Fulton.	'95	M.E.	Manager Empire Steam Laundry, Atlanta, Ga.
T. F. Oetjen ...... Richmond.	'95	M.E.	Division Engineer for the United Rys. of Havana, Cuba.
J. E. Smith ...... Fulton.	'95	M.E.	Manager John M. Smith Carriage Factory, Atlanta, Ga.
R. N. Towers ..... Floyd.	'95	M.E.	President and General Manager Rome Machine & Foundry Co., Rome, Ga.
Geo. Z. Eckels .... DeKalb.	'96	M.E.	Pay Department U. S. Army, Dept. of Gulf, Atlanta, Ga.
J. F. Gibbons ..... Bartow	'96	M.E.	Engineering Department N. P. Pratt Laboratory, Atlanta, Ga.
H. R. Hart........ Fulton.	'96	M.E.	Deceased.
Chas. W. Hill..... Floyd.	'96	M.E.	Manager C. W. Hill & Co., Engineers and Contractors, Birmingham, Ala.
H. C. Reynolds.... Hancock.	'96	M.E.	Electrical Engineer with Carter & Gillespie, Atlanta, Ga., and Superintendent of Construction.
Thos. P. Thompson Fulton.	'96	M.E.	Consulting Engineer Neff & Thompson, Architects and Engineers, Norfolk, Va.
R. B. Tufts .... Glynn.	'96	M.E.	Civil Engineer, Prudential Building, Atlanta, Ga.
A. B. Whitney .... Richmond	'96	M.E.	Deceased.
J. T. Wikle....... Fulton.	'96	M.E.	M. E. Fulton Bag & Cotton Mills, Atlanta, Ga.

REGISTER OF STUDENTS--Continued

Name, and County from which appointed	Class	Degree B. S. in	Occupation
B. N. Wilson...... Fulton.	'96	M.E.	Professor Mechanical Engineering and Superintendent of Mechanic Arts, Arkansas University, Fayetteville, Ark.
Rex Van Den Corput. DeKalb.	'97	M.E.	First Lieutenant Artillery Corps, U. S. Army, care War Dept., Washington, D. C.
R. M. Crumley.... Fulton.	'97	M.E.	Member of Firm Beck & Gregg, Atlanta, Ga., Associate Buyer.
F. C. Furlow...... DeKalb.	'97	M.E.	Vice-President Plunger Elevator Co., 17 Battery Place, New York.
E. F. Huff .... Bibb.	'97	M.E.	Auditor Armour & Co., Chicago, Ill., Headquarters St. Louis, Mo.
W. D. Nash....... Fulton.	'97	M.E.	District Engineering and Purchasing Agent Atlanta Division of Southern Cotton Oil Co., Atlanta, Ga.
J. F. Ogletree, Jr. Meriwether.	'97	M.E.	Farming, Odessadale, Ga.
A. L. Reynolds.... Hancock.	'97	M.E.	Agent Georgia Railroad Co., Merchant and Fruit Grower, Mayfield, Ga.
E. L. Wight...... Dougherty.	'97	M.E.	Secretary and Treasurer Albany Brick Co., Albany, Ga.
S. A. Bulloch ..... Thomas.	'98	E.E.	Secretary & Treasurer Foy Hardware Co., Eufaula, Ala.
J. C. Crawford... Whitfield.	'98	E.E.	Deceased.
W. B. Everett..... Polk.	'98	E.E.	Sawmilling and Merchandising, President Rockmart Hosiery Mills, Cashier Citizens National Bank, Rockmart, Ga.
J. C. Garlington .. Gordon.	'98	M.E.	Insurance and Real Estate, Calhoun, Ga.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
J. O. Hall......... Warren.	'98	E.E.	Superintendent Sawmill, Belle Air, Ga.
R. H. Hart ...... DeKalb.	'98	E.E.	Draughtsman Western Electric Co, New York, N. Y.
C. D. Honiker .... Bibb.	'98	E.E.	Assistant Superintendent Fulton Bag and Cotton Mills, Atlanta, Ga.
H. H. Peek .... Rockdale.	'98	M.E.	Manager Sales for Lookout Boiler and Manufacturing Co., Chattanooga, Tenn.
B. W. Seawell..... Fulton.	'98	M.E.	Assistant to Consulting Engineer of The Cincinnati Traction Co., and the affiliated Ohio & Indiana Interurban Lines, General Offices, Traction Bldg., Cincinnati, Ohio.
P. G. Wales...... Army.	'98	M.E.	Major Medical Dept., U. S. Army, care Military Secretary, Washington, D. C.
L. R. Camp....... Coweta.	'99	M.E.	District Engineer Southern Cotton Oil Co., Charlotte, N. C.
T. M. Gibbes...... Cobb.	'99	E.E.	Engineer Contract Dept., General Electric Co., Minneapolis, Minn.
J. M. Harby ...... Sumter, S.C.	'99	M.E.	Manager of The Kennedy Building Supply Co., Sumter, S. C.
P. Jackson .... Monroe.	'99	M.E.	Chief Engineer, J. S. Scofield's Sons & Co., New Shops, Macon, Ga.
W. Leigh......... Coweta.	'99	M.E.	Structural Engineer for Robins Conveying Belt Co., 87 Madison Ave., New York, N. Y.
J. H. Lowe .... Fulton.	'99	M.E.	Member of Jno. H. Lowe & Co., Contractors and Builders, Atlanta, Ga.
P. Moses, Jr....... Sumter, S.C.	'99	M.E.	General Manager and Secretary Clarendon Cotton Oil Mills, President and Secretary Sumter Insurance Agency, Member of Southern Engineering Co., Consulting and Constructing Engineers, Sumter, S. C., General Agent for Eastern Carolina for Penn Mutual Life Insurance Co.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
C. D. Terrell......	'99	E.E.	Vice-President Atlanta Plow Co., Atlanta, Ga.
C. M. Binford .... Decatur	'99	E.E.	Engineering Dept., United States Coal & Coke Co., Gary, McDowell Co., W. Va.
F. C. Turner...... Troup.	'99	M.E.	Assistant Manager Decatur Car Wheel & Manufacturing Co., Birmingham, Ala.
R. J. Binford ..... Decatur.	'00	E.E.	Commercial Department, General Electric Co., Schenectady, N. Y., Philadelphia Office, Philadelphia, Pa.
H. L. Freeman.... Richmond.	'00	E.E.	Testing Dept., Georgia Railway & Electric Co., Atlanta, Ga.
C. S. Jones .... Chatham.	'00	M.E.	Mechanical Engineer Lackawanna Steel Co., Buffalo, N. Y.
P. R. Lamar ...... Richmond.	'00	M.E.	Secretary and Treasurer, Fidelity Cotton Oil & Fertilizer Co., Horiston, Tenn.
S. L. Rich .... Fulton.	'00	M.E.	Sales Dept. of Southern States Electric Co., Atlanta, Ga., and Birmingham, Ala.
A. Skalowski ..... Richmond.	'00	E.E.	Installing Engineer with Automatic Electric Co., Chicago, Ill.
E. P. Williams.... White.	'00	M.E.	Draughtsman, Lackawanna Iron & Steel Co., Buffalo, N. Y.
C. S. Wright...... Gordon.	'00	M.E.	Asst. Prof. Engineering and Mechanic Arts in charge of Machine Shops, Clemson College, Clemson, S. C.
W. R. Wynne ..... Floyd.	'01	E.E.	With Southern Bell Telephone & Telegraph Co., Atlanta, Ga.
J. P. Benjamin.... Fulton.	'01	M.E.	Inspector and Engineer, Sprinkler Risk Dept. Southeastern Tariff Association, Atlanta, Ga.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
E. W. Camp ...... Coweta.	'01	T.E.	Instructor in Carding and Spinning, Georgia School of Technology, Atlanta, Ga.
D.O.Dougherty,Jr. Fulton.	'01	E.E.	With Carter & Gillespie Electrical Co., Atlanta, Ga.
Ewell Gay........ Fulton.	'01	M.E.	Asst. Manager So. Dept. Insurance Co. of North America, Philadelphia Underwriters and Alliance Insurance Co., Philadelphia, Atlanta, Ga.
W. J. Holman..... Tennessee.	'01	E.E.	Gen. Manager, Huntingdon Elec. Light & Water-works, Huntingdon, Tenn., and Managing Director Rhea County Electric Light Co., Dayton, Tenn.
B. W. Holtzclaw .. Houston.	'01	M.E.	Draughtsman and Assistant Engineer, J. S. Scofield Sons Co., Macon, Ga.
W. D. Hughes..... Wilkinson.	'01	T.E.	Inspector Sprinkler Risk Dept. Southeastern Tariff Association, Atlanta, Ga.
W. Langston...... Fulton.	'01	T.E.	With American Car & Foundry Co., St. Louis, Mo.
A. S. Mead........ DeKalb.	'01	T.E.	Theological Student, San Anselnus, Cal.
G. J. Merritt...... Bibb.	'01	M.E.	Erecting Engineer with the Westinghouse Machine Co., Pittsburg, Pa. Permanent Address, No. 8 Bridge Street, New York City; 466 Biddell Avenue, Wilkinsburg, Pa.
J. W. Moore ...... Fulton.	'01	M.E.	District Engineer Southern Cotton Oil Co., Montgomery, Ala.
W. Newsom....... Troup.	'01	M.E.	With Alabama Machinery & Supply Co., Montgomery, Ala.
W. P. Sullivan.... Chatham.	'01	M.E.	Superintendent for Yolande Coal & Coke Co., Yolande, Ala.
L. C. Swords...... Morgan.	'01	T.E.	Farming, Swords, Ga.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B, S. in	Occupation
J. F. Towers...... Floyd.	'01	M.E.	Assistant to General Superintendent Tennessee Coal & Iron Co., Steel Works Division, Ensley, Ala.
J. S. Waterman ... Bibb.	'01	M.E.	Mechanical Engineer for Columbus Iron Works Co., Columbus, Ga.
J. H. Williams.... Henry.	'01	M.E.	U. S. Navy, Marine Engine and Boiler Draughtsman, New York Navy Yard.
J. T. Anthony..... Chatham.	'02	T.E.	Draughtsman Motive Power Dept., Central of Ga. Ry., Savannah, Ga.
E. H. Bacon ...... Dodge.	'02	T.E.	Superintendent Aragon Cotton Mills, Aragon, Ga.
M. R. Berry....... Fulton.	'02	M.E.	President and General Manager Southern Brass Works, Atlanta, Ga.
I. Hardeman...... Bibb.	'02	T.E.	Representative of Buffalo Forge Co. and Buffalo Steam Pump Co., Buffalo, N. Y., Charlotte, N. C.
R. L. Hicks....... Bartow.	'02	M.E.	Draughtsman American Bridge Co., Ambridge, Pa.
M. T. Hochstrasser Fulton.	'02	M.E.	Prof. Mechanical Engineering and Drawing, University of Florida, Lake City, Fla.
Folger Johnson ... Bibb.	'02	T.E.	Student Columbia University, New York, N. Y.
A. A. Jones....... Chattooga.	'02	T.E.	With Gulf Compress Co., Decatur, Ala.
C. H. Kicklighter . Fulton.	'02	M.E.	Director Mechanical and Electrical Engineering Department, Newberry College, Newberry, S. C.
E. W. Klein....... Fulton.	'02	M.E.	Instrument man, Tampa Northern Railroad, Tampa, Fla.
McD. Lawrence ... Cobb.	'02	C.E.	Superintendent of Construction for W. R. Bonsal & Co., Hamlet, N. C.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
P. K. McKenney .. Lee.	'02	T.E.	With Textile Mill Corporation, New Orleans, La.
R. G. Merry....... Columbia.	'02	M.E.	Assistant District Engineer, Atlanta District, Southern Cotton Oil Co., Atlanta, Ga.
A. H. Morton ..... Penn.	'02	M.E.	Assistant Engineer L. & N. R. R. Co., Birmingham, Ala.
P. H. Norcross.... Fulton.	'02	T.E.	Solomon-Norcross Co.
J. H. Paulsen..... Chatham.	'02	M.E.	Engineer Propeller Tow Boat Co., Savannah, Ga.
J. Prioleau .... Fulton.	'02	T.E.	North Carolina Inspector for the Southeastern Tariff Association, Charlotte, N. C.
C. W. Rainey ..... Cobb.	'02	T.E.	Mechanical Inspector for Hanson Blake & Co., Candler Building, Atlanta, Ga.
M. G. Smith ...... Fulton.	'02	M.E.	Mechanical Engineer for J. E. Sirrine, Mill Architect and Engineer, Greenville, S. C.
H. L. Strickland .. Gwinnett.	'02	M.E.	Assistant Engineer, Sugar Plantation, Hacienda Santa Barbara Cerro Azul, Peru, South America.
T. M. Thompson.. Jasper.	'02	M.E.	With Engineering Department Van Winkle Gin and Machine Works, Atlanta, Ga.
D. D. Towers ..... Cobb.	'02	T.E.	Assistant Superintendent Bibb Manufacturing Co., Macon, Ga.
J. G. West, Jr..... Fulton.	'02	T.E.	With Carnegie Steel Co., Edgar Thomson Works, Braddock, Pa.
H. B. Wey........ Fulton.	'02	M.E.	Richardson-Wey Engineering Co., Civil and Mill Engineers, Atlanta, Ga.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
L. G. Yankey..... Dougherty.	'02	T.E.	Assistant Superintendent, Savannah Refinery, Southern Cotton Oil Co., Savannah, Ga.
H. W. Atkinson... Fulton.	'03	T.E.	Superintendent Gray Cloth Department Eddystone Manufacturing Co., Chester, Pa.
H. O. Ball .... Butts.	'03	T.E.	With Pepperton Cotton Mills, Jackson, Ga.
F. G. Bell, Jr...... Chatham.	'03	T.E.	With Fulton Bag & Cotton Mills Co., Atlanta, Ga.
P. E. Cannon ..... Franklin.	'03	T.E.	Naval Stores, Canal Station, Ala.
B. W. Cochran.... Campbell.	'03	E.E.	With Engineering Dept., Southern Bell Telephone & Telegraph Co., Norfolk, Va., Permanent Address, Atlanta, Ga.
J. E. Cook........ Chattahoochee.	'03	E.E.	With Western Electric Co., New York.
A. O. Dayton...... Florida.	'03	E.E.	Electrical Engineer Stone & Webster Engineering Corporation, Boston, Mass., Tampa, Fla., Office.
H. O. Evans ...... Texas.	'03	E.E.	Engineer, Atlanta, Ga.
W. M. Fambrough. Thomas.	'03	T.E.	Secretary and Treasurer J. B. McCrary, Consulting Engineer Water, Light and Sewerage, Atlanta, Ga., President Boston, Ga., Home Telephone Co. (Inc), Boston, Ga., Vice-President Fambrough Lumber Co., Boston, Ga.
M. L. Freeman.... Richmond.	'03	T.E.	Assistant Professor of Drawing, Agricultural and Mechanical College of Mississippi.
Felder Furlow .... Fulton.	'03	T.E.	Assistant Engineer Southern Railway, Birmingham, Ala.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
G. W. Hamilton... Whitfield.	'03	T.E.	Superintendent Crown Cotton Mills, Dalton, Ga.
J. D. Hodnett..... Massachusetts.	'03	T.E.	Constructing Engineer for Water Works System, Gulfport, Miss.
A. R. Howard..... DeKalb.	'03	T.E.	Designer Gibson Manufacturing Co., Concord, N. C.
C, J, Kamper, Jr... Fulton.	'03	C.E.	Resident Engineer for Arthur Pew, Atlanta, Ga., in charge of, Bainbridge, Ga.
A. D. Kennedy.... S. C.	'03	E.E.	Purchasing Agent Southern Cotton Oil Co., Atlanta District, Atlanta, Ga.
J. A. Kinnard .... S. C.	'03	M.E.	Assistant Superintendent W. T. Adams Machine Co., Corinth, Miss.
R. H. Lowndes.... S. C.	'03	M.E.	Adjunct Professor Mechanical Drawing School of Technology, Atlanta, Ga.
B. F. Market..... Pulaski.	'03	M.E.	With Gude & Walker, Engineers, Atlanta, Ga.
E. C. Patterson ... Fulton.	'03	M.E.	Chief Engineer for Walsh & Weidener, Boilermakers, Chattanooga, Tenn.
P. M. Peteet ...... Morgan.	'03	T.E.	Manager, Lumber & Naval Stores Co., Oak Hill, Fla.
W. S. Rankin ..... Chatham.	'03	M.E.	Assistant Inspector for Virginia-Carolina Chemical Co. and Southern Cotton Oil Co., Savannah, Ga.
J. E. Roberts ..... Tennessee.	'03	T.E.	Roberts-Ruffin Co., Cottonseed Products, Memphis, Tenn.
E. A. J. Seddon... Fulton.	'03	E.E.	Editor *Cananea Herald*, a Weekly Mining Journal, Cananea, Sonora, Mexico.
F. W. Shackleford. Muscogee. .	'03	E.E.	D. C. Engineer Department General Electric Co., Schenectady, N. Y.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B. S, in	Occupation
L. M. Solomon.... Bibb.	'03	T.E.	Poultry Breeder, Macon, Ga.
S. L. Snowden .... Bibb.	'03	M.E.	Real Estate, New York City, etc.
F. C. Swain....... Gordon.	'03	T.E.	Textile Engineer, Station, Ga.
J. G. Swanson .... Alabama.	'03	T.E.	Cotton Buyer, Montgomery, Ala.
J. L. Thrash ...... Meriwether.	'03 '04	E.E.	Spperintendent Ocilla Water & Light Plant, Ocilla, Ga.
R. B. VanWormer. Fulton.	'03	M.E.	Motive Power Department Atlantic Coast Line Ry. Co., Wilmington, N. C.
C. F. Wagner ..... Butts.	'03	M.E.	With J. B. McCrary & Co., Atlanta Ga.
J. A. Whitner, Jr.. Fulton.	'03	M.E.	Special Agent Jno. C. Whitner & Co., Atlanta, Ga.
A. C. Wilson...... Fulton.	'03	E.E.	With Georgia Railway & Electric Co., Engineering Department, Atlanta, Ga.
Paul Wright...... Spalding.	'03	M.E.	Structural Draughtsman Tennessee Coal, Iron & Railroad Co., Ensley, Ala.
C. L. Ruse........ Fulton.	'03	M.E.	Special Agent Royal Insurance Co., Atlanta, Ga.
Guy Garrard...... Muscogee.	'03	T.E.	Inspector for Southern States for American Moistening Co., of Boston, Mass., Charlotte, N. C.
W. H. Acker...... Fulton.	'04	E.E.	Engineering Dept., Westinghouse Electric & Mfg., Co., East Pittsburg, Penn.
U. E. Albury...... Florida.	'04	E.E.	Electrical Engineer, Atlanta, Ga.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
B. M. Blackburn .. Fulton.	'04	M.E.	Chief Draughtsman R. D. Cole Manufacturing Co., Newnan, Ga.
W. W. Brandon ... Thomas.	'04	M.E.	With Westinghouse Electrical Manufacturing Co., Pittsburg, Pa.
W. C. Campbell ... Muscogee.	'04	E.E.	Superintendent Public Works, Columbus, Ga.
W. M. Davis ...... Bibb.	'04	T.E.	Mechandising, Elks, Ga., R. F. D.
F. B. Davenport .. Fulton.	'04	E.E.	Testing Dept., Georgia Railway & Electric Co., Atlanta, Ga.
Z. T. Dobbs....... Fulton.	'04	T.E.	Barber & Coleman Co., Rockford, Ill.
C. H. Edmondson . Chattooga.	'04	T.E.	Superintendent and General Manager Floyd Cotton Mills, Rome, Ga.
A. R. Emery...... Fulton.	'04	E.E.	Second Lieutenant 27th U. S. Infantry. Care War Dept., Washington, D. C.
J. W. Estes....... Clayton.	'04	E.E.	Contract Dept., Crocker Wheeler Co., Ampere, N. J.
S. D. Furlow ..... Sumter.	'04	T.E.	With Bibb Manufacturing Co., Macon, Ga.
G. R. Glenn....... Fulton.	'04	E.C.	Inspector Southeastern Tariff Association, Atlanta, Ga.
J. A. Hall, Jr...... DeKalb.	'04	E.C.	Chemist in Laboratories Louisiana Sugar Experiment Station, Audubon Park, New Orleans, La.
G. A. Harbour .... Fulton.	'04	T.E.	Asst. Supt. Fulton Bag & Cotton Mills, Atlanta, Ga.
C. M. Hilliard .... Hart.	'04	C.E.	Chemist and Oil Refiner with the Oconee Oil & Fertilizer Co., Athens, Ga.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
R. C. Holtzclaw... Houston.	'04	E.C.	Asst. State Chemist, Atlanta, Ga.
L. Hunnicutt ..... Fulton.	'04 '05	M.E. E.E.	With Southeastern Tariff Association, Atlanta, Ga.
C. A. Jones .... Cobb.	'04	T.E.	In charge of Bleaching and Dyeing Department Georgia School of Technology, Atlanta, Ga.
R. K. Jordan... .. Jackson.	'04	E.E.	Inspector Southern Bell Telephone & Telegraph Co., Atlanta, Ga.
F. R. Maddox..... Floyd.	'04	E.C.	Chemist, Blast Furnace, Va., Address: Rome, Ga.
C. W. Matthews... Talbot.	'04	T.E.	With Spalding Cotton Mills, Griffin, Ga.
S. B. Mathewson.. Richmond.	'04	T.E.	Machine Erector with Barber & Colman, Rockford, Ill.
C. C. McCamy .... Whitfield.	'04	M.E.	With Atlanta Gas Light Co., Atlanta, Ga.
A. R. Monsalvatge. Fulton.	'04	E.E.	Asst. District Engineer, Southern Cotton Oil Co., Augusta, Ga.
B. Moore .... Clayton.	'04	E.E.	With Crocker Wheeler Electric Co., New Orleans, La.
J. E. Moore....... Sumter.	'04	T.E.	With Barber-Colman Co., Rockford, Ill.
F. H. Neely....... Burke.	'04	M.E.	With Westinghouse Electric Manufacturing Co., Pittsburg, Pa.
D. R. Pringle ..... Thomas.	'04	E.E.	Supt. Electrical Appliances, City of Thomasville Electric Light Plant, Thomasville, Ga.
I. H. Reid........ Taliaferro.	'04	E.E.	With Continental Gin Co., Atlanta, Ga.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
M. T. Sanders..... Greene.	'04	T.E.	Traveling for Richmond Hosiery Mills, Chattanooga, Tenn.
H. J. Scales...... Fulton.	'04 '05	E.E. M.E.	With New York & New Jersey Telephone Co.
H. M. Strauss....	'04	E.E.	Chief Operator, So. Bell Telephone & Telegraph Co., Montgomery, Ala.
T. E. Stribling.... Cobb.	'04	T.E.	Resident Supt. Habersham Mills, Habersham, Ga.
N. H. Strickland.. Gwinnett.	'04	E.E.	With Gray National Telautograph Co., 180 Broadway, New York.
S. Sutker......... Chatham.	'04	E.C.	Chief Chemist Central Iron & Coal Co., Holt, Ala., Central Foundry Co., Vincennes, Ind., Bessemer, Ala., etc.
J. H. Vaughan.... Fulton.	'04	E.E.	Engineer Street Ry. Co., Knoxville, Tenn.
H. F. Whitner.... Fulton.	'04	C.E.	With A., B. & A. Engr. Corps, Atlanta, Ga.
S. H. Wilson...... Campbell.	'04	E.C.	Asst. State Chemist, Atlanta, Ga.
A. H. Wright..... Gordon.	'04	M.E.	Calhoun Brick Co., Calhoun, Ga.
C. C. Huff........ Fulton.	'04	M.E.	With San Pedro, Los Angeles & Salt Lake, Ry. Co., Los. Angeles, Cal.
E. B. Basch....... Chatham.	'05	T.E.	With Central of Georgia Railway, Savannah, Ga.
J. S. Brogdon..... Gwinnett.	'05	E.C.	Chemist Gulfport Cotton Oil & Fertilizer Co., Gulfport, Miss.
W. C. Burns...... Banks.	'05	T.E.	Superintendent Rushton Cotton Mills, Griffin, Ga.
E. H. Bussey..... Randolph.	'05	T.E.	With Southern Bell Telephone & Telegraph Co., Atlanta, Ga.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
L. S. Collier ...... Fulton.	'05	M.E.	Asst. to Chief Operator, American Telephone Co., Chicago, Ill.
J. D. Collins, Jr. .. Fulton.	'05	M.E.	Asst. to Chief Engineer, Atlanta Steel Hoop Co., Atlanta, Ga.
L. C. Daniels ..... Fulton.	'05	E.C.	Graduate Student, Unro, Penn., Philadelphia, Penn.
H. E. Eagan ..... Fulton.	'05	M.E.	Assistant Engineer with Atlanta Steel Hoop Co., Atlanta, Ga.
R. Gregg .... Fulton.	'05	M.E.	With Atlanta Steel Hoop Co., Atlanta, Ga.
W. B. Hodgson.... Clarke.	'05	M.E.	With General Electric Co., Schenectady, N. Y.
J. W. Houseal .... Polk.	'05	C.E.	Assistant Engineer Deep Water Railway Co., Matoaka, W. Va.
J. H. Howard ..... Florida.	'05	M.E.	Treasurer and General Manager Howard Steamboat Co., Grahamville, Fla.
F. A. Kroner...... Clarke.	'05	E.E.	With General Electric Co., Schenectady, N. Y.
Thos. A. Lambert.. Fulton.	'05	E.E.	With Geo. B. Sickleas Marble Co., Tate, Ga.
J. C. Loyd........ Troup.	'05	M.E.	Foreman Linter-Room Refuge Cotton Oil Co., Columbus, Miss.
W. F. Montgomery Floyd.	'05	C.E.	With A., B. & A. Engineering Corps, Atlanta, Ga.
F. C. Morton...... Fulton.	'05	E.E.	Assistant Contracting Engr. Crocker Wheeler Co., Ampere, N. J.
T. W. Morton .... Clarke.	'05	E.E.	With General Electric Co., Schenectady, N. Y.
J. H. McConnell.. Bartow.	'05	E.E.	With U. S. Reclamation Service, Mesa, Arizona.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B, S. in	Occup tion
E. P. McGhee..... Floyd.	'05	M.E.	Superintendent Fertilizer Department, Rome Oil & Fertilizer Co., Rome Ga.
W. A. Pringle, Jr,. Thomas.	'05	C.E.	Engineer Corps, Tampa Northern Ry., Brooksville, Fla.
S. K. Smith....... Turner.	'05	E.E.	With General Electric Co., Schenectady, N. Y.
J. R. Spence...... Mitchell.	'05	E.E.	With Camilla Light and Water Department, Camilla, Ga.
T. D. Stanton..... Irwin.	'05	T.E.	With Social Circle Cotton Mills, Social Circle, Ga.
P. V. Stevens..... Florida.	'05	E.E.	Assistant Engineer Experimental Laboratories of the New York Edison Co., New York, N. Y., Waterside Sta.
C. S. Tatum ...... Dade.	'05	T.E.	Assistant to the Superintendent Trion Manufacturing Co., Trion, Ga.
P. W. Thompson .. Fulton.	'05	M.E.	Draughtsman Blue Ridge Marble Co., Nelson, Ga.
J. E. Weeks....... Chatham.	'05	E.E.	Undertaker, Savannah, Ga.
R. A. Anderson ... Cobb.	'06	M.E.	With Westinghouse Electric & Mfg. Co. Pittsburg, Pa.
W. C. Appleby .... Jackson.	'06	M.E.	Mechanical Engineer, Decatur Car Wheel Mfg. Co., Birmingham Ala.
W. N. Bagwell.... Gwinnett.	'06	T.E.	Instructor Textile Department, Georgia School of Technology, Atlanta, Ga.
J. S. Beane .... Habersham.	'06	E.E.	With Southern Bell Telephone & Telegraph Co., Atlanta, Ga.
L. H. Beck, Jr..... Spalding.	'06	T.E.	Superintendent, Griffin, Ga.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
E. B. Broomhead.. Fulton.	'06	C.E.	Assistant Engineer with Arthur Pew, Consulting Civil Engineer, Atlanta, Ga.
J. Z. Collier....... Fulton.	'06	M.E.	With Westinghouse Electric & Mfg. Co., Pittsburg, Pa.
P. H. Connally.... Paulding.	'06	E.E.	With Southern Bell Telephone & Telegraph Co., Atlanta, Ga.
G. Davis.......... Newton.	'06	M.E.	With Brumby Chair Co., Marietta, Ga.
C. C. Day......... Pickens.	'06	M.E.	With Blue Ridge Marble Co., Nelson, Ga.
C. Donaldson ..... Fulton.	'06	E.E.	With Southern Bell Telephone & Telegraph Co., Atlanta, Ga.
W. C. Dumas ..... Hancock.	'06	C.E.	With N. P. Pratt Laboratory, Atlanta, Ga.
F. J. Fagan....... Fulton.	'06	C.E.	Resident Engineer, Atlanta Office, Roanoke Bridge Co., Roanoke, Va., Atlanta, Ga.
E, Fowler .... Spalding.	'06	M.E.	Steam Engineer, Carnegie Steel Co., Clanton, Penn.
M. T. Glenn....... Rockdale.	'06	M.E.	Instructor in Drawing (Technical School), Cincinnati, Ohio.
H. G. Greene ..... Fulton.	'06	M.E.	Assistant Inspector, Southern Bell Telephone & Telegraph Co., Shops, Atlanta, Ga.
V. P. Holt........ Gilmer.	'06	E.E.	With Southern Bell Telephone & Telegraph Co., Atlanta, Ga.
C. A. Hoyt........ Florida.	'06	E.E.	With Southern Bell Telephone & Telegraph Co., Atlanta, Ga.
R. A. Hunt .... Polk.	'06	M.E.	Prof. Mechanical Engineering, Virginia Polytechnic Inst., Blacksburg, Va.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
J. P. Ingle........ Fulton.	'06	C.E.	Assistant Superintendent Gas Light Company of Columbus, Columbus, Ga.
G. O. Lowė .... Fulton.	'05	M.E.	With E. E. Lowe Co., Lumber, Coal etc., Atlanta, Ga.
I. N. Lozier....... Washington.	'06	E.E.	With Allis-Chalmers Co. Student Course, Cincinnati, Ohio.
M. R. Maclean..... Chatham.	'06	M.E.	Special Student and Assistant Instructor in Drawing, Sheffield Scientific School of Yale University, New Haven, Conn.
D. S. Marshall.... Putnam.	'06	E.E.	With Allis-Chalmers Co. Student Course, Cincinnati, Ohio.
S. W. Mays....... Fulton.	'06	M.E.	Assistant Engineer Muscle Shoals Hydro-Electric Power Co., Nashville, Tenn.
A. W. Meckel..... Fulton.	'06	E.E.	With Southern Bell Telephone & Telegraph Co., Atlanta, Ga.
C. M. McCord .... Fulton.	'06	E.E.	Superintendent, Municipal Electric Light & Water Works, Senatobia, Miss.
E. P. Noyes....... Camden.	'06	E.E.	With Westinghouse Electric & Mfg. Co., Pittsburg, Pa.
S. M. Orr, Jr. .... Fulton.	'06	E.E.	
J. C. Platt, Jr. .... Richmond.	'06	T.E.	With Jno. P. King Mills, Augusta, Ga.
E. E. G. Roberts... DeKalb.	'06	E.E.	With Westinghouse Electric Mfg. Co., Pittsburg, Pa.
S. N. Roberts ..... DeKalb.	'06	E.E.	With Westinghouse Electric & Manufacturing Co., Pittsburg, Pa.

REGISTER OF GRADUATES--Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
F. M. Rowan...... Bartow.	'06	T.E.	Superintendent Jonesboro Cotton Mills, Jonesboro, Tenn.
H. H. Sims .... Wilkes.	'06	C.E.	Construction Engineer, Southern Cotton Oil Co., Atlanta, Ga.
Chas. H. Smith.. Bibb.	'06	E.C.	Steel Plant Testing Laboratory, T. C. I. & R. R. Co., Ensley, Ala.
C. H. Tigner...... Meriwether.	'06	M.E.	With Allis-Chalmers Co., Student Course, Milwaukee, Wis.
F. J. Walden ..... Jefferson.	'06	M.E.	Installing Engineer with Cleveland Gas Engine Co., Cleveland, O.
W. Warfield ...... Chatham.	'06	E.E.	Tampa Electric Co., Tampa, Fla.
A. Wells .... Fulton	'06	E.E.	With Southern Bell Telephone & Telegraph Co., Atlanta, Ga.
T. L. Wolf........ Laurens.	'06	C.E.	With J. B. McCrary & Co., Atlanta, Ga.

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The complete organization of the University of Georgia is as follows:

THE UNIVERSITY AT ATHENS.

I. Franklin College.

(THE COLLEGE OF ARTS.)

Established in 1881, offering the Degree of Bachelor of Arts, and including: (1) General Courses in the Liberal Arts; (2) Special Courses.

II. The State College of Agriculture and the Mechanic Arts.

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Offering the following Degrees: (1) Master of Arts; (2) Master of Science; (3) Civil and Mining Engineer.

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For catalogue apply to,

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For catalogue apply to,

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For catalogues of the several institutions mentioned, address the presidents, whose names are given above; for catalogue of the entire University organization, address,

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Athens, Ga.

SUMMARY OF STUDENTS IN THE UNIVERSITY SYSTEM:		
In Franklin College	119	
In State College of Agriculture	207	
Elective Students	42	
In Graduate School	3	
In Law Department	57	
In Pharmacy Department	6	
In Summer School	300	
		734
THE NORTH GEORGIA AGRICULTURAL COLLEGE, (Dahlonega):		
In College Classes	76	
In Sub-Freshman Classes	129	
		205
THE SCHOOL OF TECHNOLOGY, (Atlanta):		
In College Classes	389	
In Apprentice Class	173	
		562
THE GIRLS NORMAL AND INDUSTRIAL COLLEGE, (Milledgeville):		
In College Classes	312	
In Sub-Freshman Class and Preparatory Class	114	
		426
STATE NORMAL SCHOOL:		
In Normal Department	440	
		440
THE INDUSTRIAL COLLEGE FOR COLORED YOUTHS, (Savannah):		
In College Class	10	
In Normal Department	74	
In Preparatory Department	204	
		288
IN MEDICAL COLLEGE, (Augusta):	98	
		98
IN PRACTICE SCHOOLS:		
State Normal School	105	
Industrial College for Colored Youths	76	
		181
TOTAL NUMBER RECEIVING INSTRUCTION:		
College Grade	1,157	
Professional Grade	975	
Preparatory Grade	648	
Practice Schools	181	
		2,961

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**Mechanical Engineering, Electrical Engineering,
Civil Engineering, Textile Engineering,
Engineering Chemistry, Chemistry, Architecture.**

1907-1908

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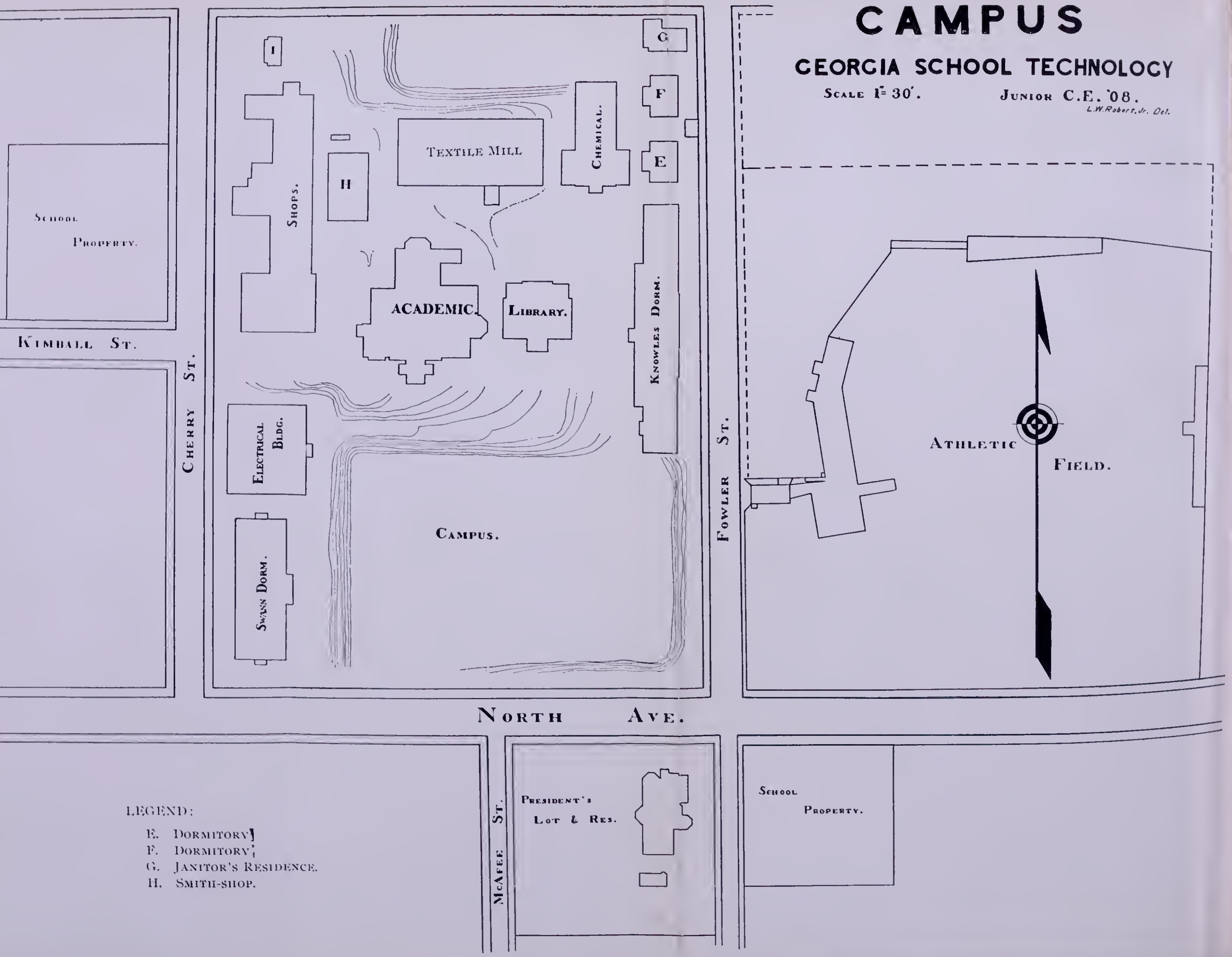
Georgia School of Technology
Office at the School
Atlanta, Ga., April, 1908



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L.W. Robert, Jr. Del.

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F. DORMITORY.
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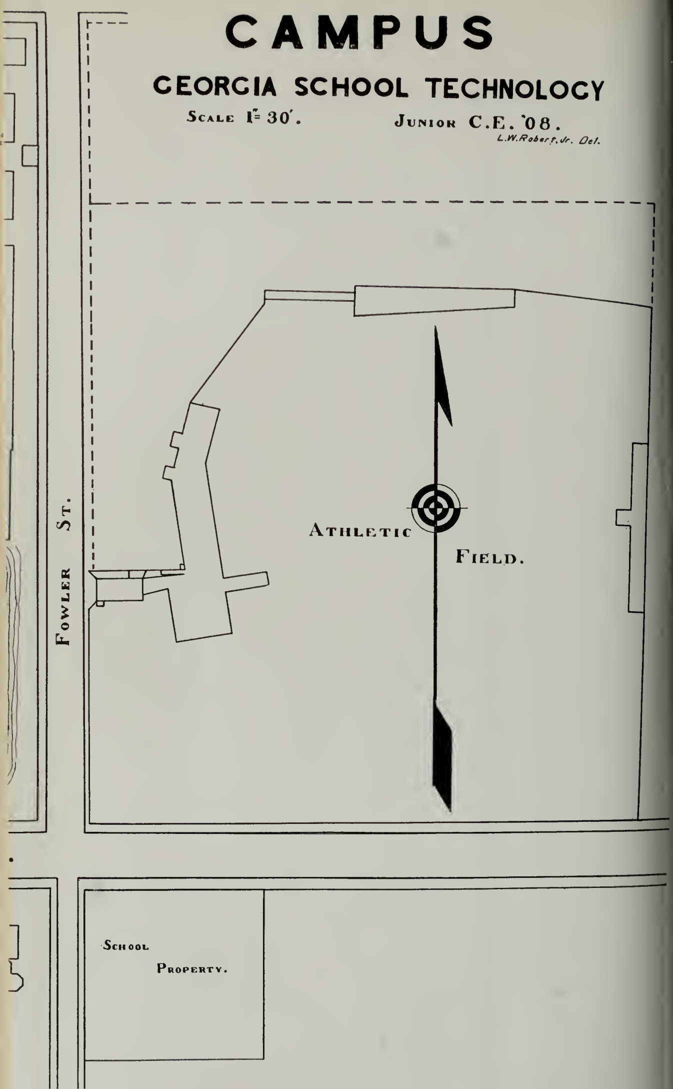
H. SMITH-SHOP.



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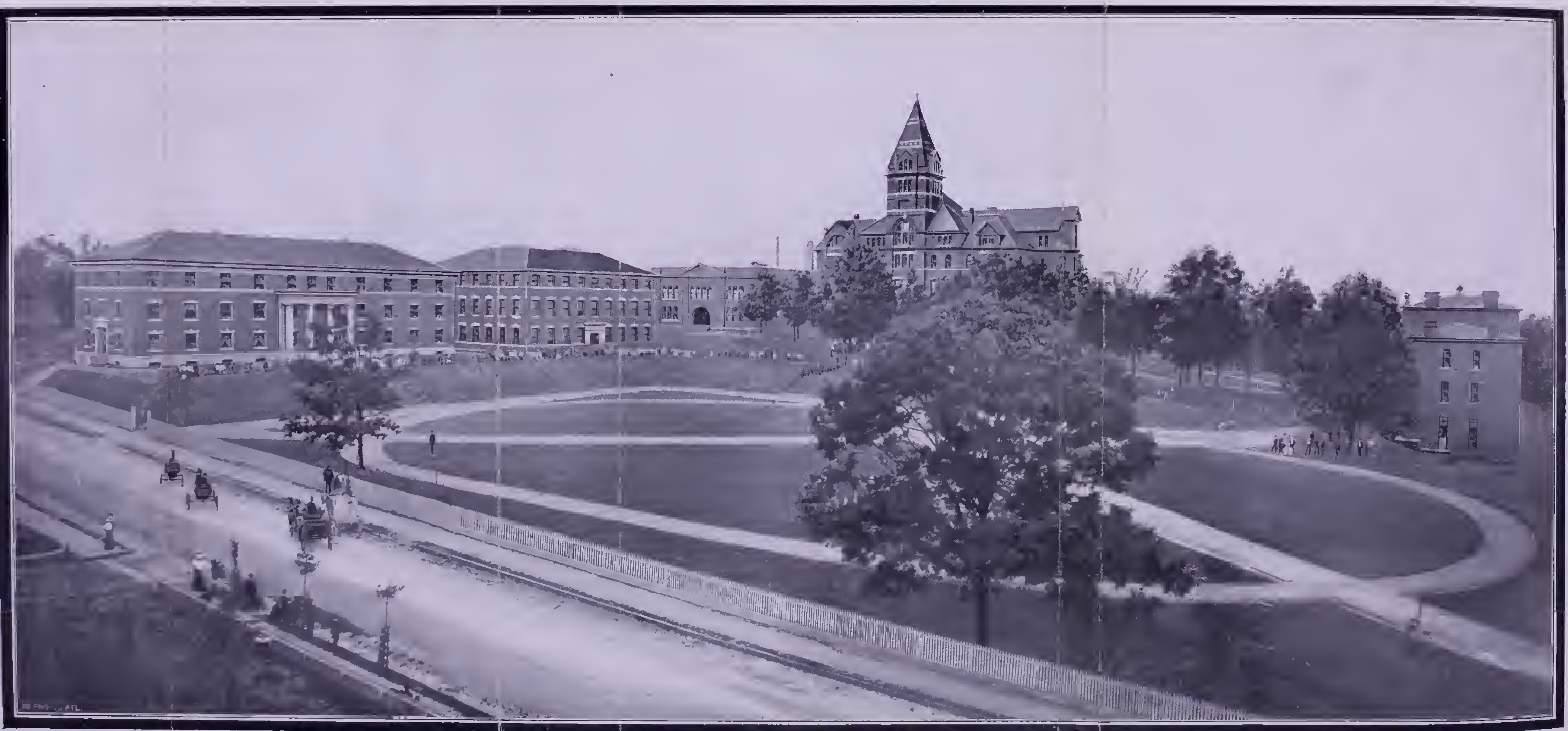
L.W.Robert.Jr. Del.



Swann Dormitory Electrical Building Shops Academic Building (A. French Textile School, Lyman Hall Laboratory of Chemistry, Carnegie Library and two Dormitories not visible.) Knowles Dormitory

MECHANICAL ENGINEERING, ELECTRICAL ENGINEERING, CIVIL ENGINEERING, TEXTILE ENGINEERING, ENGINEERING CHEMISTRY, CHEMISTRY, AND ARCHITECTURE.

CAMPUS AND BUILDINGS, GEORGIA SCHOOL OF TECHNOLOGY, ATLANTA, GA.

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CHEMISTRY, AND ARCHITECTURE.

GA.

ANNUAL ANNOUNCEMENT

OF THE

GEORGIA SCHOOL OF TECHNOLOGY

ORGANIZED 1888

A SCHOOL OF MECHANICAL, ELECTRICAL, CIVIL, AND TEXTILE
ENGINEERING, ENGINEERING CHEMISTRY,
CHEMISTRY AND ARCHITECTURE.

A DEPARTMENT OF THE UNIVERSITY OF GEORGIA.

ATLANTA, GA.

1907-1908

Entered at the postoffice in Atlanta as second class matter,
under Act of Congress, July 16, 1894.

Published five times a year in January, April, July, August and October.

ATLANTA, GA.
THE INDEX PRINTING COMPANY
Printers and Binders
1908

TABULAR ALMANAC.

1907

July

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August

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September

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	--	--	--	--	--
--	--	--	--	--	--	--

October

S	M	T	W	T	F	S
--	--	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	--	--
--	--	--	--	--	--	--

November

S	M	T	W	T	F	S
--	--	--	--	--	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
--	--	--	--	--	--	--

December

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	--	--	--	--
--	--	--	--	--	--	--

1908

January

S	M	T	W	T	F	S
--	--	--	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	--
--	--	--	--	--	--	--

February

S	M	T	W	T	F	S
--	--	--	--	--	--	1
2	3	4	5	6	8	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
--	--	--	--	--	--	--

March

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	--	--	--	--
--	--	--	--	--	--	--

April

S	M	T	W	T	F	S
--	--	--	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	--	--
--	--	--	--	--	--	--

May

S	M	T	W	T	F	S
--	--	--	--	--	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	--	--	--	--	--	--

June

S	M	T	W	T	F	S
--	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	--	--	--	--
--	--	--	--	--	--	--

July

S	M	T	W	T	F	S
--	--	--	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	--
--	--	--	--	--	--	--

August

S	M	T	W	T	F	S
--	--	--	--	--	--	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	--	--	--	--	--

September

S	M	T	W	T	F	S
--	--	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	--	--	--
--	--	--	--	--	--	--

October

S	M	T	W	T	F	S
--	--	--	--	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
--	--	--	--	--	--	--

November

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	--	--	--	--	--
--	--	--	--	--	--	--

December

S	M	T	W	T	F	S
--	--	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	--	--
--	--	--	--	--	--	--

1909

January

S	M	T	W	T	F	S
--	--	--	--	--	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	--	--	--	--	--	--

February

S	M	T	W	T	F	S
--	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	--	--	--	--	--	--
--	--	--	--	--	--	--

March

S	M	T	W	T	F	S
--	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	--	--	--
--	--	--	--	--	--	--

April

S	M	T	W	T	F	S
--	--	--	--	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	--
--	--	--	--	--	--	--

May

S	M	T	W	T	F	S
--	--	--	--	--	--	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	--	--	--	--	--

June

S	M	T	W	T	F	S
--	--	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	--	--	--
--	--	--	--	--	--	--

CALENDAR 1908-1909.

FIRST TERM.

Begins 8:00 A. M., September 30, 1908; ends February 13, 1909.

Christmas Vacation begins at noon, December 23, 1908; ends 8:00 A. M., January 4, 1909.

SECOND TERM.

Begins 8:00 A. M., February 15, 1909; ends June 17, 1909.

Commencement Day, Thursday, June 17, 1909.

By order of the Board of Trusteee, the only Holidays to be observed are Thanksgiving Day, and Memorial Day (April 26th).

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K. G. Matheson, A.M., LL.D.	President.
T. P. Branch, B.E.	Secretary and Registrar.
J. S. Akers	Treasurer.
W. A. Jackson, Jr., M.D.	Physician.
S. S. Wallace, A.M.	Supt. of Dormitories.
Miss Laura Hammond, Graduate Pratt Institute,	Librarian.

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F. Field, A.M.	Junior Professor.
A. B. Morton, A.M.	Adjunct Professor.
W. V. Skiles, A.B.	Adjunct Professor.
R. C. Morrow, A.B.	Adjunct Professor.

CHEMISTRY.

Wm. H. Emerson, Ph.D.	Professor.
G. H. Boggs, B.S., Ph.D.	Junior Professor.
J. L. Carpenter, B.S., M.A.	Adjunct Professor.

MECHANICAL ENGINEERING.

J. S. Coon, M.E.	Professor.

ENGLISH.

S. S. Wallace, A.M.	Professor
William Gilmer Perry, A.M.	Adjunct Professor.
Elbert W. G. Boogher, M.A.	Adjunct Professor.
R. W. McCulloch, AB.	Adjunct Professor.
E. R. Stevenson, A.B.	Adjunct Professor.
J. B. Coleman, B.S.	Adjunct Professor.

FACULTY—*Continued.*

ELECTRICAL ENGINEERING.

H. P. Wood, B.S., E.E., ... Professor.
F. B. Davenport, B.S. in E.E. . . . . . Adjunct Professor.

CIVIL ENGINEERING.

T. P. Branch, B.E. . . . . Professor.
W. A. Jackson, B.S. in C. E. . . . . . Adjunct Professor.

EXPERIMENTAL ENGINEERING.

J. N. G. Nesbit, B.S., E. E. . . . . Professor.
F. B. Davenport, B.S. in EE. . . . Adjunct Professor.

PHYSICS.

J. B. Edwards, B.S., E. and M.E. . . . . . Professor.
C. J. Payne, A.B. . . . . Adjunct Professor.

DRAWING.

J. S. Coon, M.E. . . . . Professor.
R. H. Lowndes, B.S. in M.E. . . . . . Junior Professor.
L. R. Jackson, B.S. in M.E. . . . . . Adjunct Professor.

PHYSICAL CULTURE.

W. A. Jackson, Jr., M.D. . . . . Director.

MODERN LANGUAGES.

J. B. Crenshaw, A.M., Ph.D. . . . . Professor.

GEOLOGY AND MINERALOGY.

W. S. Kell, E. M. . . . . Junior Professor.

TEXTILE ENGINEERING.

W. N. Randle (Grad. Philadelphia Textile School) Director.

FACULTY—*Continued.*

THE A. FRENCH TEXTILE SCHOOL.

E. W. Camp, B.S. in T. E., Assistant Director, and in charge of Carding and Spinning Department.

H. Hebden, in charge Warp Preparation, Weaving and Finishing Department.

C. A. Jones, B.S. in T.E., in charge Bleaching and Dyeing Departments, and Assistant in Weaving.

D. E. Philpott, Assistant in Carding and Spinning.

SHOPS.

J. S. Coon, M.E.	Superintendent.
E. B. Martindale	General Foreman, Foreman Machine Shop,
Horace A. Thompson	Foreman, Smith Shop.
John H. Henika	Foreman, Wood Shop
Wm. Van Houten	Foreman, Foundry.
H. H. Norman	Instructor, Wood Shop.
W. F. Griffin	Instructor, Machine Shop.
L. P. Milner	Instructor, Wood Shop.

O. O. Boyle	Secretary to President.
Miss Ella Pogue	Stenographer to President.
A. G. Allen	Steward of the Dining Hall.
C. E. Bostwick	Assistant in Gymnasium.
A. E. Turner, A.B.	College Y. M. C. Secretary.

STANDING COMMITTEES OF THE FACULTY.

The President is *ex-officio* a member of all standing committees.

Accredited Schools.—Professors Branch, and Geckeler.

Athletics.—Professors Randle, Nesbit and Dr. Jackson.

Buildings and Grounds.—Professors Coon and Lowndes.

Courses of Study.—Professors Emerson, Branch and Geckeler.

Deficiencies.—Professors Wallace, Edwards and Boggs.

Honor System.—Professors Emerson, Wallace and Crenshaw.

Library.—Professors Boggs, Perry and Wood.

Rules and Regulations—Professors Emerson, Branch and Randle.

RESIDENCES OF FACULTY.

G. H. Boggs	373 Spring Street.
E. W. G. Boogher	Dormitory.
T. P. Branch	522 Spring Street.
E. W. Camp	651 S. Pryor Street.
J. L. Carpenter	453 Luckie Street.
J. B. Coleman	Dormitory.
J. S. Coon	26 Kimball Street.
J. B. Crenshaw	391 Peachtree Street.
F. B. Davenport	66 W. Peachtree Street.
J. B. Edwards	32 Prospect Place.
W. H. Emerson	175 Ashby Street:
F. Field	341 Frazier Street.
O. T. Geckeler	Oakland City.
W. F. Griffin	408 Luckie Street.
Miss Laura Hammond	724 Piedmont Avenue.
Harry Hebden	405 Spring Street.
J. H. Henika	56 E. Ellis Street.
L. R. Jackson	408 Luckie Street.
W. A. Jackson	197 Kimball Street.
W. A. Jackson, Jr.	180 W. North Avenue.
C. A. Jones	Marietta, Ga.
W. S. Kell	49 W. Linden Street.
R. H. Lowndes	315 E. Linden Street.
E. B. Martindale	50 Cherry Street.
K. G. Matheson	142 W. North Avenue.
R. W. McCulloch	414 Luckie Street.
L. P. Milner	408 Luckie Street.

RESIDENCES OF FACULTY—*Continued.*

R. C. Morrow	197 Kimball Street.
A. B. Morton	373 Spring Street.
J. N. G. Nesbit	15 W. Third Street.
H. H. Norman	312 W. Fourth Street.
C. J. Payne	53 W. Linden Street.
W. G. Perry	394 Spring Street.
D. E. Philpot	115 Plum Street.
W. N. Randle	246 Juniper Street.
W. V. Skiles	79 W. North Avenue.
E. R. Stevenson	55 W. North Avenue.
H. A. Thompson	299 Crew Street.
A. E. Turner	Dormitory.
Wm. VanHouton	211 W. Pine Street.
S. S. Wallace	Swann Dormitory.
H. P. Wood	395 S. Boulevard.

STUDENTS.

Senior Class.

Adair, M. C. . . . . . .Oconee.
Adamson, C. . . . . . .Carroll.
Baldwin, J. R. . . . . .Floyd.
Burke, J. G. . . . . . .Fulton.
Cheney, G. W. H. . . .Floyd.
Crumbley, J. J. . . Quitman.
Davenport, J. E. . . .Virginia
Emerson, C. L. . . . .Fulton.
Evans, H. B. . . . . . . .Hall.
Fosterling, C. W. . .Chatham.
Gibbs, G. W. Jr. . . .Fulton.
Goodier, L. E. Jr. . . .Fulton.
Hardin, F. H. . . . . .Fulton.
Hargrove, S. J. . . . .Dodge.
Henderson, C. H. . .Houston.
Hendrie, G. A. . . . .Fulton.
Herndon, J. . . . . . .Elbert.
Howe, G. C. . . . . .Baldwin.
Johnson, T. F. Jr. .Chatham.
Kollock, E. C. . . . . Fulton.
MacIntyre, D. I. . . .Fulton.
McCarty, G. W. Jr. . .Fulton.
McClure, H. H. . . . .Floyd.
Pope, H. D. . . . . .Coweta.
Pritchard, W. O. . . .Fulton.
Rice, P. B. . . . . . .Laurens.
Robert, L. W. Jr. . . .Jasper.
Slaughter, N. H. . . .Virginia.
Snyder, W. R. . . . .Fulton.
Spivey, W. T. . . Meriwether.
Summer, E. S..South Carolina.
Sweet, C. A. . . . . .Fulton.
Treanor, E. D. Jr. . .Baldwin.
Vaughan, H. R. . . . .Fulton.
Werner, R. C. . . . .Fulton.
Wilby, R. B. . . . .Alabama.
Woodall, J. H. . . . .Talbot.
Woolfolk, A. R. . . .Fulton.
Young, H. A. . . . .Putnam.

Junior Class.

Adamson, N. E. . . . .Floyd.
Adamson, W. L. . . . Clayton.
Arrington, H. H. .Richmond.
Barkdull, G. W. Jr. .Louisiana.
Barnwell, G. W. . . .Fulton.
Berry, C. O. . . . .Whitfield.
Bostwick, C. E. Jr. . .Ware.
Chapman, J. G. . . . .Bibb.
Clarke, W. C. . . . .Newton.
Connally, L. C. . . . .Fulton.
Cook, J. R. . . . . .Newton.
Cundell, A. B. . . . . Floyd.
Cureton, J. G. . . . . .Dade.
Downing, H. C. . . . .Fulton.
Dumas, H. N. . . . . .Cobb.
Duncan, G. W. Jr. . . .Bibb.
Fernandez, R. . . . . .Cuba.
Ford, I. S. . . . . . .Berrien.
Gable, F. R. . . . . .Fulton.
Gardner, F. H. . . . .Elbert.
Gary, F. P. . . . .Richmond.
Harrison, O. L. . . .DeKalb.
Horsley, E. S. . . . .Terrell.
Jones, A. P. . . . . .Cobb.
Lewis, T. L. Jr. . . . .Milton.
Luck, G. F. . . . . . .Clayton.
Morris, C. R. . . . . .Floyd.
Murray, H. . . . . .Muscogee.
Muse, E. H. . . . . .Fulton.
Myers, P. H. . . . . .Walker.
Myers, Z. V. . . . . .Walker.
Pool, W. T. . . . . .Pickens.
Rogers, E. H. . . . . .Milton.
Round, H. Y. . . . .Thomas.
Simons, W. L. .South Carolina
Smith, E. W. . . . . . .Bibb.
Tutwiler, W. S. . . .Chatham.
Wallin, L. I. . . . . .Walker.
Wilcox, W. M., Jr. . . Elbert.
Williams, W. L. . . . .Bibb.
Wright, J. . . . . . . .Brooks.

Sophomore Class.

Alexander, J. S. . . . . Henry.
Arrington, L. . . . Mississippi.
Atkinson, F. B. . . . . Glynn.
Auld, I. M. . . . . Clay.
Baldwin, J. S. . . . . . Fulton.
Bedell, A. S. . . South Carolina.
Betts, C. A. . . . Tennessee.
Boozer, D. . . . . . . Brooks.
Bowen, J. D. . . . . . Fulton.
Bradley, H. Y. . . . . Fulton.
Brevard, P. . . . . . Texas.
Brewster, E. F. . . . . Fulton.
Burt, A. M. . . . . Bibb.
Burkholder, E. W. . . Florida.
Cabaniss, R. . . . . . Fulton.
Carlton, H. R. . . . . Fulton.
Chandler, E. F. . . . . Coweta.
Childs, W. M. . . . . Fulton.
Clark, C. R. . . . . . Fulton.
Coleman, P. M. . . . . Fulton.
Collier, C. A. . . . . . Fulton.
Cook, W. F. . . . . Muscogee.
Crawford, A. G. R. . . Texas.
Cronheim, D. H. . . . . Fulton.
Daughtry, R. B. . . . . Butts.
Davis, A. . . . . Fulton.
Denton, F. B. . . . . Chatham.
Edwards, L. W. . . . Spalding.
Elgin, L. . . . . Fulton.
Estes, H. H. . . . . . . Hall.
Fellers, W. M. . . . . Florida.
Ferst, H. W. . . . . Chatham.
Flythe, J. W. . . . Richmond.
Freeman, Y. F. Jr. . Meriwether
Gaines, M. L. . . . . . Elbert.
Gantt, J. A. . . . . Bibb.
Gordy, S. . . . . . Muscogee.
Graves, W. S. . . . . . Floyd.
Halliday, N. W. Jr. . Campbell.
Hausmann, F. W. . . . Florida.
Hazlehurst, J. G. . . . Fulton.
Herault, P. C. . . . . Florida.
Hesterly, H. W. . . . Carroll.
Hill, E. D. . . . . . . Wilkes.
Hodges, S. N. . . . . Houston.
Howard, M. W. Jr. . Muscogee.
Ivey, E. D. . . . . . Thomas.
Ivy, J. W. . . . . . . Thomas.
Jacobs, F. S. . . . Mississippi.
Johnson, E. . . . . Texas.
Jones, C. E. . . . . . . Fulton.
Jones, J. W. . . . . . Coweta.
Kaufman, B. . . . . . Glynn.
Kellogg, W. D. . . . . Fulton.
Kimball, C. L. . . . . Newton.
King, E. A. . . . . Polk.
Lafitte, E. F. . . . . . Fulton.
Lang, O. H. . . . . . Camden.
Legg, M. F. . . . . . . Fulton.
Levy, M. H. . . . . Chatham.
Lightner, R. C. . . . Alabama.
Lumpkin, H. C. . . . Brooks.
Lyon, E. H. . . . . . . Fulton.
Marshall, W. B. . . . Putnam.
May, J. J. . . . Pennsylvania.
Means, C. P. . South Carolina.
Millsaps, P. R. . . Tennessee.
Mitchell, F. . . . . . Thomas.
Mobley, L. R. . . . . Walton.
McCann, W. P. . . Richmond.
McKay, M. M. . . . . Spalding.
McRae, F. W., Jr . . Fulton.
Neville, W. H. . . Mississippi.
Pappa, J. H. . . . . . Fulton.
Pappenheimer, J. . . . Fulton.
Parker, L. M. . . . . . Fulton.
Pfeiffer, L. O. . . . Screven.
Phillips, A. J. . . . . Telfair.
Rich, W. T. . . . . . Fulton.
Richardson, E. . . . . Fulton.
Rodgers, H. A. . . . . Floyd.
Rountree, A. C. . . . Brooks.
Scott, I. A. . . . . . Coweta.
Semmes, G. W. . . Tennessee.
Simmons, S. C. . . . . Fulton.
Sims, R. . . . . Wilkes.
Smith, G. B. . . . . . Fulton.
Solomon, M. . . . . Bibb.
Stakeley, H. C. . . . . Fulton.
Steffner, S. U. . . Tennessee.
Stewart, R. R. . . . . Coweta.
Summerour, B. F. . . . Milton.
Thiesen, R. J. . . . . . Florida.
Thompson, G. C. . . . Butts.
Ware, N. B. . . . . . DeKalb.
Warner, H. A. . . . . . Fulton.
Webster, E. A. . . . Pickens.
Wilson, W. S. Jr. . . . Fulton.
Winship, J. . . . . . . Fulton.
Wood, H. J. . . . . . Florida.
Wright, W. C. . . . . . Floyd.
Yeandle, S. S. . . . . . Hall.
Zeiger, C. E. . . . New Jersey.

Freshman Class.

Abrams, V. R. . . . . . Glynn.
Adams, W. I. . . . . Thomas.
Adkins, F. S. . . . Oglethorpe.
Aichel, W. A. . South Carolina.
Alexander, W. A. . . . Fulton.
Allen, J. R. . . . . Fulton.
Anderson, C. E. . . . Jackson.
Artley, A. T. . . . . Chatham.
Baird, H. S. . . . . . Fulton.
Baldwin, M. C. . . . . Terrell.
Barney, W. P. . . . . Chatham.
Bates, W. T. . . . . . . Dade.
Beall, J. C. . . . . . . Fulton.
Beckwith, H. B. . . . Newton.
Benson, L. C. . . . Haralson.
Bleakley, E. A. . . Richmond.
Blesse, F. V. . . . . . Texas.
Borders, C. R. . . . . . Polk.
Bowen, O. W. . . . . Hancock.
Branan, C. B. . . . . DeKalb.
Brazelton, W. L. . . . Texas.
Brooks, E. A. . . . . . Fulton.
Bryson, M. T. . . . . . Green.
Buchanan, C. W. Jr. . . Butts.
Burroughs, R. A. . . Chatham.
Burruss, J. P. . . . . . Morgan.
Caldwell, J. L. . . Tennessee.
Canova, D. T. . . . Florida.
Carr, H. E. . . . . Tennessee.
Chapple, J. C. . . . . Virginia.
Clark, R. H. . . . . Jefferson.
Clarke, J. T. . . . . . Sumter.
Clay, R. A. . . . . . Walton.
Clifton, J. A. Jr. . . . . Texas.
Cohen, M. H. . . . . Chatham.
Coleman, W. B. . . . . Bibb.
Collier, D. C. . . . . . . Pike.
Cooper, J. T. . . . . Muscogee.
Cowles, C. A. Jr. . . . DeKalb.
Crane, J. E. . . . . . DeKalb.
Davis, R. H. . . . . . . Texas.
Dawkins, D. C. . . . . Florida.
Dawson, J. D. Jr. . . . Texas.
Dawson, V. S. . . . . . Texas.
Day, T. J. Jr. . . . . . Fulton.
Dexter, W. . . . . . Florida.
Dix, H. L. . . . Mississippi.
Donaldson, M. L. . . Fulton.
Durden, P. . . . . . Emanuel.
Earle, J. W. . . . . . Florida.
Edwardy, F. W. Jr. . . Fulton.
Ellsworth, W. T. . . . . N. C.

Falk, J. S. . . . . . . Chatham.
Fallaize, E. . . . . Fulton.
Ferst, M. A. . . . . . Chatham.
Fleming, W. P. Jr. . . . Bibb.
Fraser, W. W. . . . . . Liberty.
Frey, M. C. . . . . Cobb.
Frye, F. W. . . . . . . Fulton.
Garrett, V. H. N. . Richmond.
Glover, C. V. C. . . . . Fulton.
Goette, F. H. . . . . . Glynn.
Golden, R. F. . . . Muscogee.
Goodloe, W. H. . . . . . Bibb.
Goodman, B. E. . . . . Harris.
Gould, R. A. . . . . . Glynn.
Green, L. F. . . . . . Burke.
Greene, M. A. . . . Haraldson.
Guinn, T. D. . . . . Randolph.
Hammett, A. H. . . . Clayton.
Harris, R. L. . . . . . . Henry.
Harrison, J. S. . . Washington.
Head, R. C. . . . Haraldson.
Hendee, R. K. . . . . DeKalb.
Henderson, A. S. J. Jr. . Irwin.
Hill, A. W. . . . . Fulton.
Hill, M. S. . . . . Wilkes.
Holt, F. W. Jr. . . . Putnam.
Hook, E. B. Jr. . . Richmond.
Howard, W. R. . . . . Fulton.
Hulse, W. S. . . . Tennessee.
Hurst, C. L. . . . . . Mitchell.
Hutt, A. S. . . . . Richmond.
Ingle, R. B. . . . . Fulton.
Inglesby, G. S. . . . Chatham.
Inglesby, J. E. . . . Chatham.
Jernigan, W. P. . . Tennessee.
Johnson, J. A. . . . . Baldwin.
Johnson, M. C. . . . . Fulton.
Kelley, R. A. Jr. . Washington.
Killingsworth, E. C. . . Clay.
Kollock, G. J. . . . . Fulton.
Krensen, F. . . . . . Chatham.
Kroner, H. A. . . . . . Clark.
Kunzie, A. E. . . . . . Fulton.
LeCraw, C. S. . . . . . Fulton.
Lloyd, A. W. . . . . . Futlon.
Loving, H. W. . North Carolina
MacClaughry, R. W. Jr. Fulton
Markley, W. A. . . . . . Fulton.
Mathews, J. P. Jr. . . . Fulton.
Mathis, J. D. . . . . . Sumter.
Michael, H. L. . . . . Walton.
Morel, J. M. . . . . Screven.

Mosheim, W. M. . . . Texas.
McCarty, J. D. Jr. . . . Fulton.
McGary, W. B. Jr. . . . N. C.
McRae, K. C. . . . . . Fulton.
Nash, J. T. . . . . . DeKalb.
Neel, R. W. . . . . . Bartow.
Nelms, C. L. . . . . Franklin.
Normandy, G. M. . . Fulton.
Novoa, G. . . . . . . Mexico.
Noyes, H. R. . . . . . Camden.
Ogletree, F. H. . . . . Fulton.
Oliver, S. M. . . . . . Elbert.
Paschal, L. W. . . . Richmond.
Patterson, H. W. . . Chatham.
Pitts, A. B. . . . Mississippi.
Rampley, W. . . . . . . Elbert.
Richardson, W. B. . Mississippi
Roberts, G. H. Jr. . . . . N. C.
Robinson, W. M. Jr. . Richm'd.
Sago, H. R. . . . . . Coweta.
Scogin, A. F. . . Merriwether.
Simmons, C. M. . . . . Floyd.
Simon, H. H. . . . . . Fulton.
Smith, B. . . . . . . Hancock.
Smith, H. R. . . . . Emanuel.
Spalding, J. J. Jr. . . Fulton.
Starke, J. T. . . . . Muscogee.
Stewart, W. F. . . . . Glynn.
Stringfellow, M. G. . Florida.
Suarez, F. . . . . Cuba.
Suarez, R. . . . . Cuba.
Summerour, J. . . . . Milton.
Taylor, J. B. . . . . . . Fulton.
Thomas, R. O. . . . . . Bibb.
Thomason, E. K. . . . Fulton.
Thompson, H. T. Tennessee.
Tingley, R. O. . North Carolina
Tippens, L. H. . . . . Tattnall.
Tommins, J. A. . . . Richmond.
Walker, T. B. . . . . Fulton.
Walton, E. . . . . . . Fulton.
Walton, J. . . . . Fulton.
Ward, E. E. . . . . Calhoun.
Watkins, J. S. Jr. . . . . S. C.
Watson, O. S. . . . . . Pierce.
Weaver, H. G. . . . . Putnam.
Webb, H. M. . . . . Colquitt.
Wheat, S. S. . . . . Virginia.
Wilkinson, W. L. . . . Brooks.
Wilt, D. F. . . . . Washington.
Woodward, D. H. . . Fulton.
Woodward, R. Jr. . . Florida.
Wynn, M. F. . . . . . Dodge.

Apprentice Class.

Adams, B. B. . . . . Thomas.
Aiken, C. E. . . . . . Morgan.
Aikens, C. H. . . . . DeKalb.
Almand, A. W. . . . Rockdale.
Austin, T. H. Jr. . . . Fulton.
Ayres, A. . . . . Bibb.
Barnes, H. R. . . . . . Fulton.
Barnett, F. W. Jr. . . Wilkes.
Basil, P. . . . . Fulton.
Beattie, H. Jr.. South Carolina.
Biossat, S. R. . . . Louisiana.
Black, D. C. . . . . . . Fulton.
Blakeley, T. T. . . . Spalding.
Bond, H. . . . . DeKalb.
Brooks, C. B. . . . . Franklin.
Brooks, G. T. . . . Franklin.
Brown, D. H. . . . . Pulaski.
Browne, N. B. . . . . Fulton.
Burke, J. F. . . . . . . Fulton.
Bussey, F. C. . . . . Richmond.
Byrd, C. A. . . . . . Florida.
Carr, E. W. . . North Carolina.
Carr, W. M. . . . . Crawford.
Carson, C. C. . . . . . Texas.
Clark, W. B. . . . . Chatham.
Cox, T. E. . . . . Fulton.
Cranford, C. L. . . . Florida.
Crowe, W. A. Jr. . . . Fulton.
Crumley, C. L. . . . . Fulton.
Davidson, F. I. . . . . Jasper.
Davidson, J. S. . . Richmond.
Davis, J. R. . . . . . . Rabun.
DeLoach, L. . . . . . Bulloch.
DesPrez, W. . . . . Alabama.
Dewey, G. O., ... Florida.
Dobbs, J. F. . . . . . DeKalb.
Durkee, J. P. . . . Richmond.
Edmonds, R. W. . . . Fulton.
Emerson, W. A. . . . Fulton.
Falligant, R. . . . . . Chatham.
Farman, C. D. . . . New York.
Finlayson, D. A. . . . Brooks.
Fitzsimmons, A. F. . . Fulton.
Flournoy, R. H. . . Houston.
Fortson, R. M. . . . . Wilkes.
Frazer, E. H. Jr. . . . Fulton.
Frazier, A. C. . . . . Fulton.
Garmany, W. P. . . . Walker.

Geise, N. C. . . . . Emanuel.
Giddens, L. L. . . . Berrien.
Ginn, C. M. . . . . . Franklin.
Goddard, W. S. . . . . . N. C.
Gould, P. F. . . . . . . Glynn.
Griffin, N. . . . . Fulton.
Hall, B. M. Jr. . . . . Fulton.
Hancock, R. J. . . . . . Floyd.
Hardwick, C. L. . . . Fulton.
Harvin, C. J. . . . . . Calhoun.
Harris, D. W. . . . . . . Bibb.
Haynes, B. . . . . Cobb.
Haynes, M. . . . . . . Futlon.
Hazzard, W. S. . . . . Fulton.
Heard, J. F. . . . . Bibb.
Hellams, R. V. . . . . Wilkes.
Hicks, A. G. . . . . Bibb.
Hightower, R. E. Jr. . Upson.
Hill, A. P. . . . . Telfair.
Hinton, C. . . . . . Gwinnett.
Hinton, L. O. . . . Gwinnett.
Holmes, C. E. . . Mississippi.
Hope, G. M. Jr. . . . . Fulton.
Houseal, W. B. . . . . . . Polk.
Houser, H. M. . . . Houston.
Howard, I. E. . . Oglethorpe.
Howard, R. E. . . . . Screven.
Howe, V. L. . . . . Haralson.
Hudson, J. A. . . . . . Fulton.
Hull, L. . . . . . . Richmond.
Ingram, P. . . . . Fulton.
Irwin, W. . . . . Wilkes.
Irwin, R. D. . . . . Floyd.
Ison, F. L. . . . . Fulton.
Jackson, E. S. . . . . . Fulton.
Jacobs, J. L. . North Carolina.
Jacobs, L. M. . North Carolina.
James, F. C. . . . . Emanuel.
Jenkins, W. K. . . . . Fulton.
Jewett, G. B. Jr. . . . . Bibb.
Johnson, R. P. . . . . Troupe.
Johnson, W. M. . . . Bulloch.
Jones, E. M. Jr. . . . . Fulton.
Jones, T. W. . . . . . . Fulton.
Jordan, N. W. . . . . . Jasper.
Kimbell, W. E. . . . Jackson.
Kinnett, G. T. Jr. . . . . Bibb.
Kitchens, C. W. . Washington.
Knight, F. W. . . . . Bartow.
Kuhrt, H. A. . . . . . . Fulton.
Lamar, W. H. . . . . . Florida.
Lamkin, G. B. . . . . Columbia.
Landers, J. A. . . . . Clayton.
LaRoque, F. A. . . . . . N. C.

Landes, H. B. . . . . . . Texas.
Lawson, W. T., Jr. . . Monroe.
Linton, W. A. . . . . Thomas.
Little, A. G. . . . . . Franklin.
Lokey, S. O. . . . . . . Fulton.
Looper, W. S. . . . . Hall.
Manasseh, N. . . . . . . Fulton.
Mann, L. . . . . Coweta.
Manry, J. N. . . . . . . Fulton.
Mather, W. C. . . . . Colquitt.
Mathews, G. N. . . . Tomps.
Matthews, R. M. . . . Upson.
Mayer, J. E. . . . . . . Fulton.
Mecaslin, J. H. . . . . Fulton.
Mell, B. . . . . DeKalb.
Melton, C. E. . . . . . . Terrell.
Miller, W. G. . . . . . DeKalb.
Milligan, J. A. . . . . Thomas.
Mingledorf, I. B. . . Chatham.
Moore, J. N. Jr. . . . . Fulton.
Morgan, S. C. . South Carolina.
Morris, M. P. . . . . . . Cobb.
McCutchen, M. D. . . Bartow.
McDade, W. F. . Mississippi.
McDonald, F. B. . . . . . Lee.
McDowell, T. H. . . . . Bibb.
McGrath, G. N. . . . Pickens.
McKinney, F. C. . . . Fannin.
McLeod, J. A. . . . . . Fulton.
Noble, S. N. Jr. . . . . Polk.
Oliveros, R. P. . . . Chatham.
Owen, O. N. . . . . . Monroe.
Padgett, J. D. . . . . . Texas.
Parrish, D. W. . . . . . Clark.
Pease, L. G. . . . . Muscogee.
Pharr, R. H. . . . . . . Wilkes.
Pitts, J. H. . . . . Pike.
Porter, C. C. . . . . McDuffie.
Pye, H. N. . . . . Talbot.
Quarterman, W. S. Jr. . . Fla.
Reynolds, W. L. Jr . . Fulton.
Ridley, C. H. . . . . . DeKalb.
Ridgely, R. G. . . . . Florida.
Robert, F. H. . . . . . . Jasper.
Roberts, J. Y. . . . . Lowndes.
Robinson, P. T. . . . Chatham.
Roby, J. A. . . . . Jasper.
Rogers, G. T. . . . . . Bartow.
Ross, H. T. . . . . . . Glynn.
Sadler, D. . . . . Florida.
Scales, J. B. . . . . . . Fulton.
Scruggs, J. E. . . . . . Troup.
Semmes, F. C. . . . . Florida.
Sims, J. B. . . . . . . Coweta.

Sinclair, B. W. . . . McIntosh.
Sloan, T. S. . . . . . . Fulton.
Smith, A. H. . . . . . Troup.
Smith, A. Q. . . . . . Fulton.
Smith, G. A. . . . . . Houston.
Smith, P. . . . . . . Carroll.
Smith, W. G. . . . . . Fulton.
Speer, G. A. . . . . . Fulton.
Spence, H. T. . . . . Mitchell.
Starnes, T. L. . . . . . Fulton.
Statham, G. L. . . . . Sumter.
Steele, E. M. . . . . . Fulton.
Swearingen, J. C. . . . Elbert.
Taylor, R. A. . . . . Glynn.
Teague, N. N. . . . Richmond.
Thomas, A. A. . . . . Telfair.
Thompson, J. C. . . Alabama.
Thompson, P. . . . Clayton.
Tillman, G. C. . . . . . Polk.
Travis, C. H. . . . . Coweta.
Vandyke, R. D. . . . . Floyd.
Walden, J. . . . . . . Jefferson.
Washington, A. . Mississippi.
Watts, C. E. . . . . Mitchell.
Westall, W. H. . . . . N. C.
Wheeler, R. C. . . Tennessee.
Williams, R. H. . . . . . Bibb.
Winn, N. A. . . . . . Florida.
Yancey, B. E. . . . . . Fulton.

Special Textile No. 1.

Amorous, C. B. . . . . Fulton.
Bell, S. I. . . . . Fulton.
Bennett, G. A. . . . . . Cobb.
Bone, W. H. . . . . . Baldwin.
Brice, J. S. . . . . . . Thomas.
Burt, W. G. . . . . . . Bibb.
Buchanan, C. . . . Tennessee.
Clifton, H. C. . . . . . Texas.
Derrick, F. B. . . . . . Rabun.
Erwin, H. M. . . . . . DeKalb.
Hamilton, D. E. . . . Floyd.
Hero, N. C. . . . Louisiana.
Hill, D. . . . . . . New York.
Johnson, A. E. . Chattahoochee
Loeb, G. G. . . . Mississippi.
Moore, H. . . . . . . Clayton.
Morgan, R. A. . . . . . Polk.
Murphy, W. . . . . Pike.
McPhaul, L. J. . . . . . Worth.
Saunders, F. F. . . . . Fulton.
Shaffer, R. . . . . Dougherty.
Shingler, W. G. . . . Turner.
Sims, W. A. . . . . . Oconee.
Steinheimer, L. M. . . Fulton.
Sutcliffe, J. W. . . . New York.
Watson, K. . . . . Mississippi.
Westberry, W. H. . . . Worth.
Wilcox, L. B. . . . . . . Bibb.
Wolfe, P. B. . . . . Tennessee.

Special Textile No. 2.

Hightower, W. H. . . . Upson.
Malhiot, R. G. . . . Louisiana.
Mattox, R. W. . . . . Coweta.
McDonald, R. E. . . . . N. C.

Artisans.

Blucher, A. G. . . . . . Texas.
Brown, J. C. . . . . . . Pike.
Meadows, M. C. . . . Carroll.
Merriman, M. C. . New York.

SUMMARY OF REGISTRATION.

Senior Class	39
Junior Class	41
Sophomore Class	103
Freshman Class	157
Apprentice Class	185
Special Textile No. 1 . . .	29
Special Textile No. 2	4
Artisan	4
Total	562

N. B.—Enrollment in Night School, recently established, 135.

TABLE.

Percentage of Enrollment Having Residence in Country, Village, Town and City.

Country	Village	Town	City
.09	.06	.30	.55

TABLE.

Occupation of Parents or Guardians of 562 Students, Georgia School of Technology.

OCCUPATION	NO.
Clerks	47
State Officers	5
Contractors	12
Farmers	104
Merchants	123
Insurance Men	20
Manufacturers	41
Lawyers	22
Physicians	35
Cotton Merchants	14
Teachers	11
Ry. Agents	13
Engineers	19
Traveling Salesmen	18
Workmen	23
Miscellaneous	55
Total	562
Total number of graduates	323
Number deceased	8
Number of living graduates	315
Graduate Mechanical Engineers	163
Graduate Electrical Engineers	78
Graduate Textile Engineers	54
Graduate Civil Engineers	15
Graduate Engineering Chemistry	13
Total	323

FOR G

Visit

FUTURE ENGINEERS FOR GEORGIA'S INDUSTRIAL DEVELOPMENT.

Student Assemblage in Honor of the Visit of Lieutenant-Governor L. S. Chanler, October 25, 1907.

Graduates in business as follows:

General Engineering	31
Mechanical “	99
Electrical “	74
Textile “	41
Civil “	17
Engineering Chemistry	23
Merchandise, Real Estate and Agencies	14
Teachers	6
Physicians	2
Lawyers	1
Army Officers	3
Farmers	2
Ministers	2
Total	315

Note:—It is impossible to form an accurate table which will show the percentages of graduates in diffierent branches of engineering who are pursuing the special branches in which they received diplomas. Many Mechanical graduates, for instance, easily fall into the Electrical business and the reverse. However, it is seen from the above table that out of three hundred and fifteen living graduates there are only thirty who are in other pursuits, showing that virtually ninety per cent. of the graduates of the School are engaged in the profession of engineering. It may be said also that many of those who seem not to be in the engineering professions utilize constantly their knowledge of engineering in the particular business which they pursue.

The Mechanical Engineering Degree was established when the School began in 1888; the Degrees of Electrical and Civil Engineering in 1896; the Degree of Textile Engineering in 1898; the Degrees of *Mining Engineering and Chemistry in 1906, and the Degree of Architecture in 1908.

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*N. B.—Mining Engineering discontinued for the present.

HISTORY AND GENERAL INFORMATION.

During the session of the Legislature of Georgia in 1882, a committee of ten was appointed to visit technical institutions in the North and report on the advisability of establishing a technical school in Georgia.

The committee made its report at the summer session of the Legislature in 1883, recommending the establishment of the school. A bill was introduced for that purpose, and was lost, receiving only sixty-five votes. The people of the State were appealed to by the supporters of the measure, and it was the issue in many counties in the election of members of the next Legislature. The State Agricultural Society recommended it, and many other prominent organizations of the State pressed the matter upon the attention of the people.

The bill was introduced again by Hon. N. E. Harris, and was passed at the summer session, October 16, 1885, appropriating $65,000 to found the School.

The first Board of Commissioners was appointed by Gov. McDaniel, on or about January 1, 1886, as follows: N. E. Harris, S. M. Inman, E. R. Hodgson, O. S. Porter, and Columbus Heard. The Board organized and elected N. E. Harris chairman and S. M. Inman secretary and treasurer.

The Act provided for competitive bids from various sections of the State for the location of the School, and the Commission, after considering propositions, located the school in Atlanta. This action was based upon the following superior inducements offered by Atlanta: (a) $50,000 in cash donated by the city; (b) $2,500 annuity for twenty years; (c) a citizens' subscription of $20,000, headed by the Hon. S. M. Inman with a donation of $5,000. A campus of nearly five acres was purchased on North Avenue from the Peters Park Company, of which the Hon. Richard Peters was president and practically sole owner. The Commission having decided that the campus was too small for the purposes of the School, Mr. Peters, with characteristic generosity, donated four additional adjoining acres, having a cash value of $10,000.

During the summer of 1888, the buildings and part of the equipment being ready, a faculty was elected, and academic and shop work began October 3 of that year.

By Act of the Legislature, December 9, 1890, two other trustees were added to the local board, and on January 7, 1891, Messrs. D. N. Speer and W. B. Miles were duly elected. Relative to the further personnel of the board, Mr. D. N. Speer resigned June, 1893, and was succeeded by Mr. George Winship, of Atlanta. Due to removal from the city, Mr. S. M. Inman resigned October, 1897, and was succeeded by Mr. Geo. W. Parrott, of Atlanta, who served until June, 1899. Upon Mr. Parrott's resignation on that date, Mr. Walter M. Kelley, of Atlanta, was duly elected. Due to removal from the city, Mr. W. M. Kelley resigned March, 1907, and was succeeded by Mr. N. P. Pratt, who was elected July, 1907.

In March, 1891, an Apprentice Class was established, for the purpose of preparing those students for the Freshman Class whose opportunities for advancement in studies have been limited.

On April 21, 1892, between two and five o'clock a. m., the school-shops were totally destroyed by fire. With the insurance on the building and machinery, and an additional appropriation made by the Legislature, the building and machinery were at once replaced, and the result of the misfortune was, in the end, most beneficial, as both building and equipment are superior to the original plant.

The leading object of the School is to teach the principles and applications of science, especially those which relate to the mechanical, industrial, and textile arts.

The school offers an education of high grade, founded on Mathematics, the English Language, Modern Languages, Physical and Industrial Sciences, and Drawing, and the splendid record of its complete roster of graduates fully justifies its claim to engineering standards of the highest degree.

In December, 1896, the Legislature appropriated $20,000; of this amount, $5,000 was for the equipment of a Department of Electrical Science, and $15,000 for building a dormitory. The dormitory was duly erected and first occupied by students at the opening of the fall session of 1897.

The Local Board of Trustees at its meeting in December, 1896, established the Degrees of Electrical Engineering and Civil Engineering.

In December, 1897, the Legislature appropriated $10,000 for the establishment of a Textile Department, provided that the friends of the school contribute $10,000 additional in money and machinery.

During the year 1898 nearly $20,000 worth of machinery was donated to the School, and about $13,500 in cash. Experienced mill architects were employed to make plans for the Textile building described on page 93. The regular course in Textiles, both in theory and practice, began in the fall of 1899.

Mr. Aaron French, of Pittsburg, Pa., became interested in the School in the summer of 1897, and when he was asked to co-operate in meeting the conditions imposed by the Legislature, he made several donations. The first $2,600, was given without any condition. The second $3,000 was given provided the friends of the school raise $3,000 additional.

The city of Atlanta promptly met this condition by appropriating the necessary $3,000 in July, 1898.

Mr. French's third donation amounted to $3,000, and enabled the trustees to make material increase in the size of the Textile building.

Other gifts to the School have been as follows:

From Mr. J. W. Rucker for maintenance, in June 1899.	$ 3,000
From Mr. Aaron French for maintenance, in June, 1899	3,000
From Mr. Aaron French for scholarship, in July, 1898	500
From Mr. Aaron French for scholarship, in December, 1899	500
From Mr. Aaron French for maintenance, in January, 1900	3,500
In 1900 the following:	
From James Swann for dormitory	$21,500
From other citizens and friends	13,500
From Mr. Aaron French for scholarship, in 1901	500

In December, 1900, the Legislature appropriated $10,000 for an Electrical building and $6,000 for additional textile equipment, with the proviso that these amounts would not be available until the friends of the School should furnish $25,000 in cash donations. The condition was promptly met.

In June, 1902, the General Education Board offered to give the School $5,000 for equipment and $2,500 two successive years for maintenance, provided friends of the school would donate $10,000 additional.

The friends of the school responded by giving $12,910 in cash, as listed in the 1903-04 catalogue.

In 1903, the will of Mr. James Swann provided that the school should receive $10,000 in cash upon the settlement of his estate. This amount properly supplemented, was spent in the purchase of nearly two acres of land adjoining the campus, and in the erection on a portion thereof of a President's residence.

In June, 1903, Mr. Wm. R. Hearst, of New York, gave the School $5,000 in cash for such needs as the trustees might see fit to supply.

In June, 1904, the Legislature appropriated $10,000 for the erection of a Chemical Laboratory, provided friends of the School would give an equal amount.

Through the heroic efforts of the late President, Dr. Lyman Hall, the conditional amount was secured only a few weeks prior to his lamented death on August 16, 1905. During his nine years' incumbency of office, President Hall was chiefly instrumental in building the School from an insignificant and struggling existence to a proud position of equality with the other great engineering institutions of the country. Climaxing, as he did, his remarkable work by securing funds for the new Chemical building, it was considered eminently fitting that his name should be perpetuated in the structure. Therefore, in connection with memorial exercises in his honor, the cornerstone of the Lyman Hall Laboratory of Chemistry was laid with imposing ceremony, November 25, 1905.

The building was completed and fully equipped in the summer of 1906, and was duly occupied by the Department of Chemistry in October following.

On January 27, 1906, Mr. T. W. Smith, of Columbus, Ga., gave $600 for a scholarship, self-perpetuating on the basis of the French scholarships.

On March 12, 1906, Mr. Andrew Carnegie donated $20,000 for a Library building on condition that the School appropriate $2,000 annually for the support of the Library. The Board of Trustees accepted the condition, and the building was secured.

In August, 1906, the Legislature appropriated $17,500 for the purpose of enlarging the campus. Four acres east of the present campus, and fronting on North Avenue, were purchased for $16,000, and the balance of $1,500 was added to by friends to the amount of $3,500, with which sum a lot fronting 180 feet on Cherry Street and 150 feet on Kimball Street was purchased.

Options have been secured on a lot fronting 156 feet on North Avenue and 150 feet on Fowler Street. Friends of the School have contributed generously to a purchase fund, and it is confidently expected that the fund will soon be completed and the lot purchased.

In August, 1906, the Legislature increased the appropriation for annual maintenance $10,000; and made a further increase of $5,000 in August, 1907.

In June, 1907, the City Council of Atlanta increased its annual appropriation from $2,500 to $3,500.

DEPARTMENTS.

DEPARTMENT OF MATHEMATICS.

Great importance is attached to the study of Mathematics. Primarily the aim of the instruction is to supply the student with a working knowledge of those principles which he needs in the study of engineering; but since the acquisition of a ready and logical mind is quite as valuable as the ability to use the subject, it is not the purpose to subordinate altogether the logical development of mathematics to the practical side.

Instruction in this department is given by the use of text-books, supplemented by oral explanations and lectures. The student's knowledge of the subject is tested almost daily. Classes are subdivided into sections numbering usually from twelve to twenty, thus making possible individual treatment of students who require it.

Apprentice Class.

Algebra is completed through quadratics. There is much drill in the solution of exercises. Attention is given to the graphical representation and solution of equations. Text: Wentworth's Elementary Algebra.

Plane Geometry is completed. Many originals are solved and the fundamental ideas of Plane Trigonometry are given. Text: Sander's Geometry.

Freshman Class.

The Algebra course will include higher simultaneous equations, inequalities, ratio, proportion, variation, progressions, logarithms, binomial theorem, variables and limits, undetermined co-efficients, and partial fractions. Text: Wentworth's Elementary Algebra.

In Plane Trigonometry the usual topics will be given. Text: Crockett's Trigonometry.

In Analytic Geometry the point, line, polar co-ordinates, and transformation of co-ordinates will be studied. Text: Candy.

Sophomore Class.

This class will study Analytic Geometry and Calculus. Text: Lambert's Calculus and Candy's Analytic Geometry.

Junior Class.

Mathematics is continued in the Junior class by all students except those in the textile and chemical courses, during the first term, three hours per week. The work will be suited to the needs of the classes. It will include special topics, review, and applications.

DEPARTMENT OF CHEMISTRY.

Professors Emerson, Boggs and Carpenter.

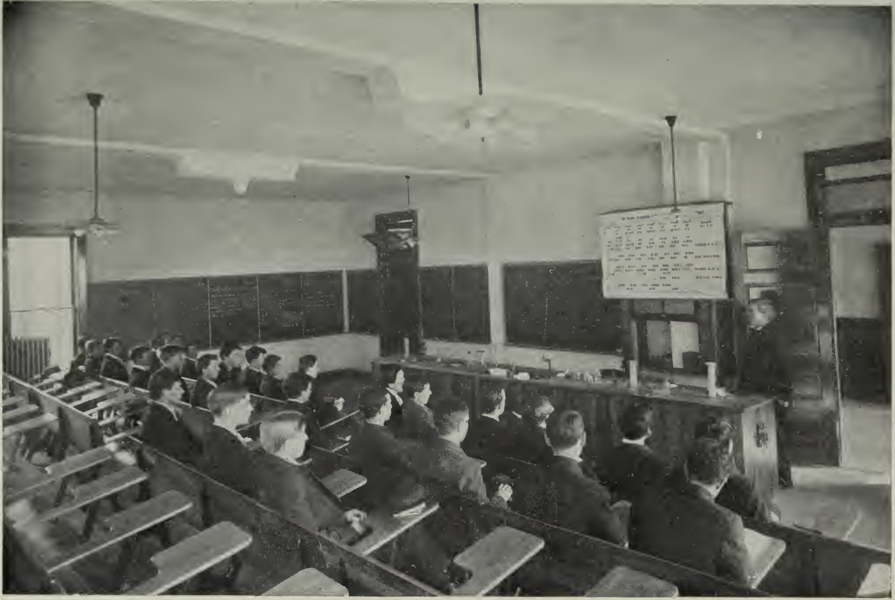
(For description of new Chemical Laboratories, see p. 94.)

The courses offered by this department are intended to give the student, in the first place, a broad foundation in general and theoretical Chemistry, so that in his future work new problems may be met intelligently and solved. In the second place, to give him special training in those branches of Chemistry which have been most generally applied industrially, so that he may be immediately useful.

Two courses leading to degrees are offered. One to the Degree of Bachelor of Science in Engineering Chemistry, the other to the Degree of Bachelor of Science in Chemistry. The schedule of subjects required for the first will be found on p. 87, under Courses of Study, and for the second on p. 89.

Bachelor of Science in Engineering Chemistry.

The graduate will be prepared to pursue the subject either on its manufacturing or analytical side. With respect to his fitness to take up the work in chemical manufacturing, the course offers exceptional opportunities. The work in Mechanical Engineering, embracing considerable shop and laboratory practice, elementary mechanics, and the steam-engine, will en-



A LECTURE ROOM, CHEMICAL LABORATORY.

QUANTITATIVE LABORATORY.

FRESHMAN LABORATORY.

able him to understand machinery, superintend the running of it, and take charge of various mechanical operations. The course in Drawing will enable him to understand mechanical drawings, and express his ideas by means of them. The course in Electricity will enable him to understand electrical appliances, and to superintend industrial operations carried on by means of electricity. His knowledge of Chemistry will enable him to determine the relative values of the raw materials offered by dealers, and to conduct intelligently operations based on chemical principles, detect imperfections in them, and suggest improvements. The work of the course being mainly chemical, the graduate will be prepared to undertake analytical work of almost any kind, and should be valuable in the laboratory, whether for general analytical, or for special work.

Bachelor of Science in Chemistry.

To meet the demand for skilled chemists and assayers, who are not necessarily engineers, this course is offered to students who have shown some aptitude for Chemistry. It differs from the preceding course by the omission of Mathematics and the Engineering subjects, after the Freshman year, and substitution therefor of Mineralogy, Crystallography, and Geology; and the addition of another modern language. Also, the time devoted to chemical subjects has been increased both in the laboratory and the class-room.

It is expected that this course of study will equip the student with a more thorough and comprehensive knowledge of Chemistry.

The graduate will be fitted to undertake any line of general chemical work; and being especially prepared by his studies in Metallurgy, Assaying, and Mineralogy, can follow work in these lines.

Outline of Subjects.

The following is a brief description of the subjects taught in this department, in which it will be observed that laboratory work is a prominent feature throughout. The time given these subjects will be stated under "Courses of Study."

1. General Inorganic Chemistry.—All students. Text: McPherson and Henderson.

The work in General Chemistry extends through the Freshman year, three hours per week being given to lectures and recitations, in which the subjects under consideration are amply illustrated by experiments serving to make clear and impress the principles and facts of the lesson. The lecture course is accompanied by laboratory work, two hours per week, in which the student becomes acquainted with chemical apparatus and manipulation, and is taught to observe chemical phenomena with care, and record them accurately in his note book.

2. Advanced Inorganic Chemistry.—Chemists: Text: Holleman. Senior year. A more detailed study and discussion of the principles of Chemistry.

3. Qualitative Analysis.—Chemists: This subject is studied throughout the Sophomore year, averaging eight hours per week in the laboratory. The student is given a large number of mixtures to analyze, and in the latter part of the course, minerals and alloys, the proper determination of which necessitates the careful observation of many phenomena and the drawing of correct inferences from them, while at the same time his chemical knowledge is made permanent and accurate. Frequent quizzes and examinations are given to insure that the work is being done intelligently and not by rote. W. A. Noyes' Qualitative Analysis is used as a guide, and Fresenius and other texts as references.

4. Qualitative Analysis.—Optional with all Sophomores, except Textiles, who are required to take it.

This is a course of four hours per week for one year, and is similar to the one outlined above, though abbreviated to meet the demands of those students who do not expect to pursue the subject of Chemistry. Text: Noyes' Qualitative Analysis.

5. Quantitative Analysis.—Chemists: This course begins in the second term of the Sophomore year, and extends through the first term of the Senior year. It consists of general and applied Analytical Chemistry.

(a) General Methods. Text: Talbot, and References.

This work is intended to give the student a thorough grounding in analytical methods as a basis for the special work to be taken later, and is broad enough to enable him to cope with new problems, which he will necessarily meet in the pursuit of his profession.

(b) Applied Analytical Chemistry. In this practice commercial products will be selected for analysis, such as bleaching powder, soda, mordants, alloys, iron ores, slags, limestones, etc. The following are emphasized:

Fuels.—A complete and proximate analysis of coal and a determination of its heating power by means of the Calorimeter. The bearing of the results on the value of the fuel will be dealt with in the lecture course.

Iron and Steel.—The usual determinations are made on iron and steel. These, together with the analyses of iron ores are limestones, and the work in fuel testing, will equip the student for work in laboratories connected with blast furnaces and steel works.

Water Analysis.—The determinations usually made to ascertain the fitness of the water for use in boilers, dyeing and domestic purposes.

Fertilizers.—The analysis of a complete fertilizer by the methods recommended by the Association of Official Agricultural Chemists.

Gas Analysis.—The analyses of several gaseous mixtures of common occurrence, such as illuminating gas and flue gas.

6. ORGANIC CHEMISTRY.—Chemists: This course extends through the Junior year, and consists of recitations and lectures. Perkin and Kipping's Organic Chemistry is used as a text. The accompanying laboratory course will familiarize the student with the apparatus used in organic work and with such operations as fractional distillation and crystallization, steam distillation, saponification, nitration, sulphonation, diazotization, which are operations conducted on a large scale in color works and other chemical industries. He will prepare a number of commercial products, such as nitro benzine, aniline, phenol and dyestuffs, and will also be required to make a satisfactory organic combustion.

7. HISTORY OF CHEMISTRY.—Chemists: A half-year course

dealing with the lives and work of those who have contributed to the development of the science, and with the various theories which have prevailed from time to time.

8. INDUSTRIAL CHEMISTRY.—Chemists: Text: Thorpe. First term, Senior year. A topical study of the various industrial processes of greatest importance.

9. ADVANCED QUALITATIVE ANALYSIS.—Chemists: Second term Senior year. Discussions, collateral readings and practical work, using Volhardt and Zimmerman's Experimental Chemistry as a basis.

10. PHYSICAL CHEMISTRY.—Chemists: Text: Walker. Senior year. This course consists of lectures, recitations and laboratory work. It deals with such subjects as the laws of gases, solution, vaporization, condensation, fusion and solidification, electrolytic dissociation, etc., and is of practical value in throwing light on separations and purifications brought about by such physical processes as evaporation, distillation, electrolysis, filtration, crystallization, etc., processes very common in chemical manufactures, and which require intelligent control in order to secure the best results.

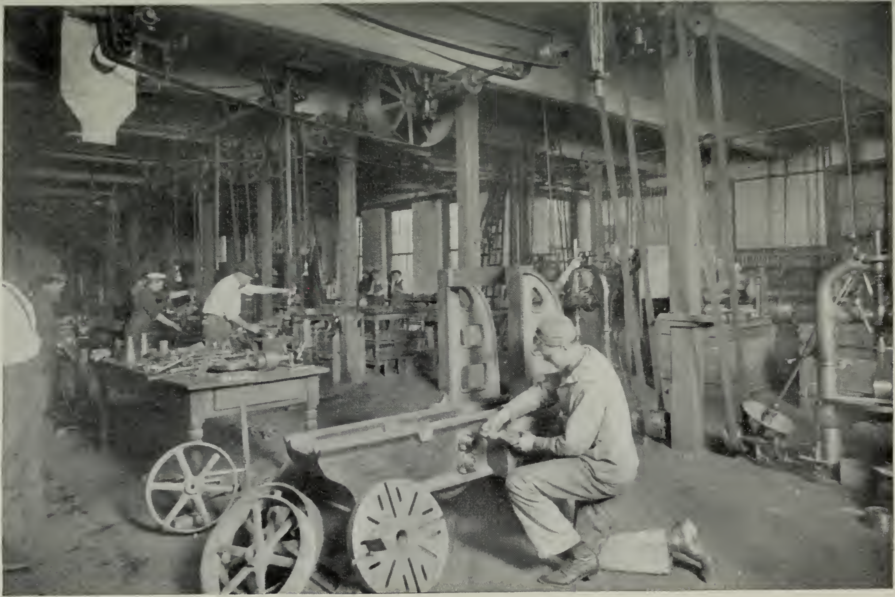
11. THESIS.—In the latter part of the Senior year the student prepares a thesis requiring original work.

DEPARTMENT OF MECHANICAL ENGINEERING.

All instruction in this department is based on strictly utilitarian lines.

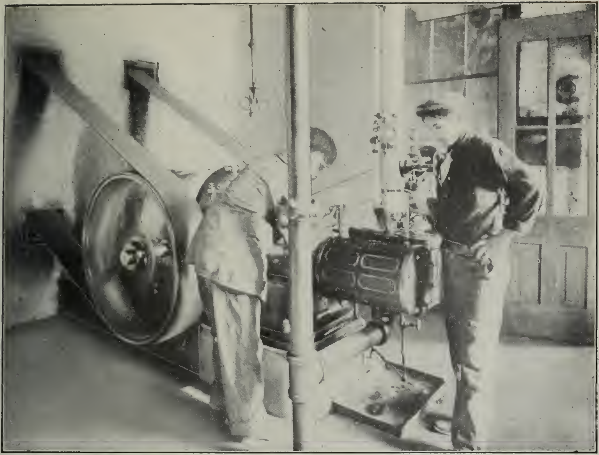
The graduate's commercial valuation, on leaving the technical school, is invariably based on his helpfulness—on what he can *do,* and not on what he *knows.* He must *know* things and how to *do* them, and not simply know *about* them.

It is felt that a student purposing to take a course in Mechanical Engineering must at once manifest marked aptitude in at least one of the three branches: He must have special taste for, and ability in, the understanding and solution of mechanical problems, which require a good knowledge of mathematics; or he must show great quickness of insight, accuracy, and value

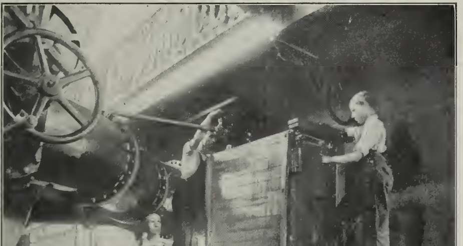


MACHINE SHOP—SECTION 1.

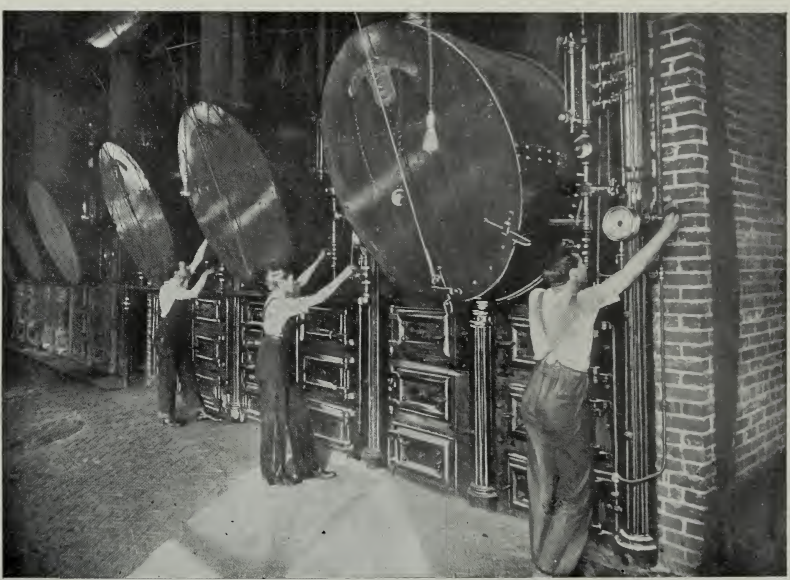
MACHINE SHOP—SECTION 2.



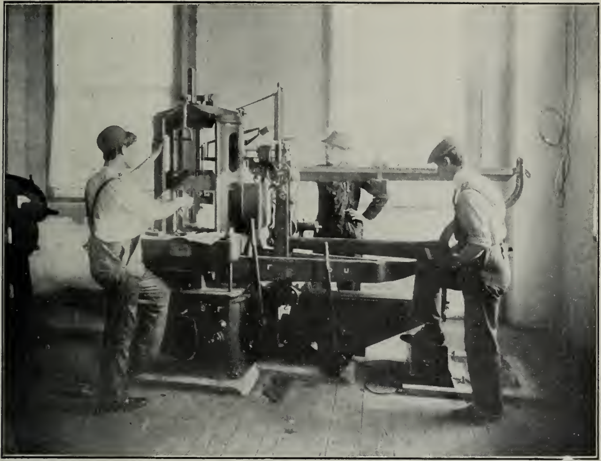
INDICATING AN ENGINE, BUILT IN SHOPS.



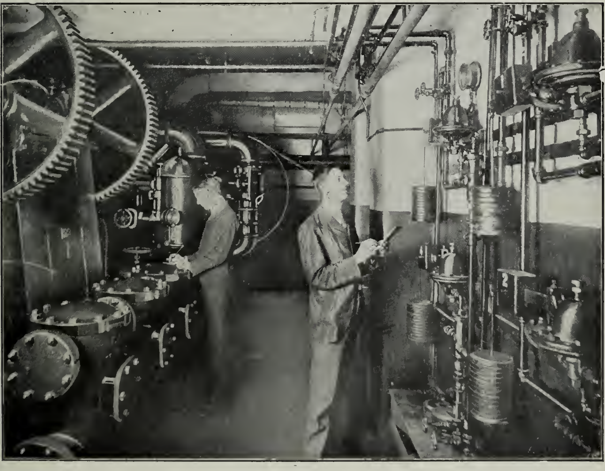
PUMPING ENGINE TEST, ATLANTA WATER-WORKS.



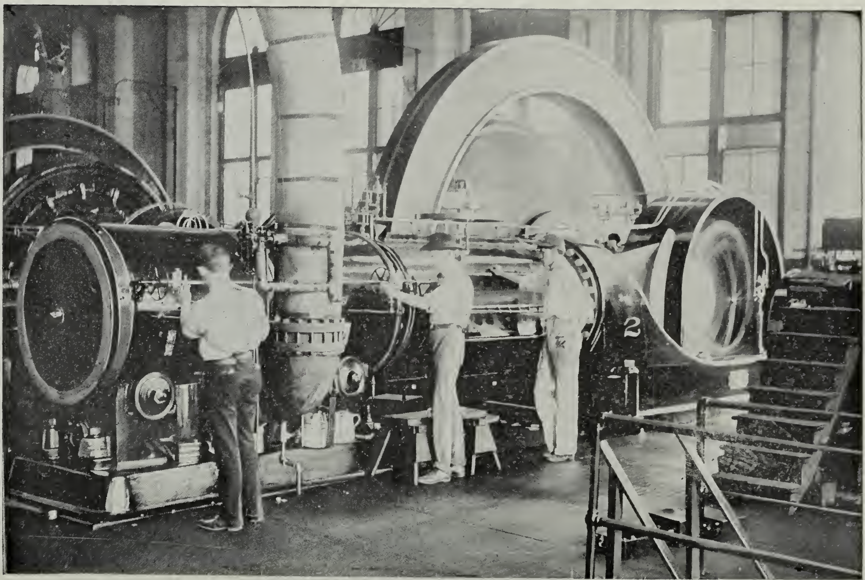
TESTING BOILERS, ATLANTA WATER-WORKS.



100,000-LB. RIEHLE TESTING MACHINE.



TESTING HYDRAULIC ELEVATORS, EMPIRE BUILDING, ATLANTA, GA.



INDICATING AN ENGINE—GEORGIA RAILWAY AND ELECTRIC COMPANY.

in the drawing-room; or he must show marked ability as a handicraftsman in the shops. To be a successful engineer, he must excel in all three of these branches. If he excels in none, the case is plain that he has mistaken his calling, or his parents are mistaken, and it is a waste of time and of their money for him to remain here, and he is early advised to seek education in some other field of effort.

The studies taught in this department comprise Kinematics and Mechanism, Machine-Design, Analytic Mechanics, Applied Mechanics, Materials used in Engineering Structures, Strength of Materials, Steam Engineering, Prime Movers, and laboratory experiments.

In Kinematics—the Geometry of Machinery, or Pure Mechanism—the geometric relations of the moving parts of machines are investigated. This includes the proper forms of teeth of Spur Gear, both Epicycloidal and Involute (and their approximations by the use of the various forms of Odontographs), Bevel Gears, and Worm Gearing. This study is supplemented in the drawing-room by a thorough course in drawing the various forms of teeth, and familiarity gained with the best modern shop-practice in gear-cutting. Pure Mechanism also includes the study of various types of Epicyclic Trains, and a careful analysis of the velocity ratios of various parts of the steam-engine, with or without beams. This study will, in the near future, be illustrated by a set of excellent models, to be constructed in the school-shops by the students.

The study of Machine-Design will be by text-book and lectures, and also by practical application in drawing. It will include the various parts of machine tools, the steam-engine, pumping machinery, electrical machines, riveted joints, and the proper forms for strength and efficiency of the various parts of other machines in common use. A very important adjunct to this course of instruction will be the study of a magnificent collection of blue-prints of details of a large variety of machinery, for which we gratefully acknowledge obligations to the Calumet & Hecla Mining Company, of Boston; to the Dickson Manufacturing Company, of Scranton, Pa., and others. This incomparable collection of prints will be augmented from time to time.

In Analytic and Applied Mechanics the various forces in statics and dynamics are studied, and a wide range of problems in their practical application to machines is solved. The subjects to which special attention is directed are the various forms and expressions for force; the composition and resolution of forces, and their application to cranes, derricks, etc.; determination of center of gravity; friction; the principle of virtual velocities, and its application to the steam-engine; laws for the transmission of force in the various mechanical powers (so-called); equilibrium and pressure of fluids; accelerated motion and its application in particular to the steam-engine reciprocating parts; eccentric and cam motions; the theory of impact, constrained motion and centrifugal force; moment of inertia, and its application to the fly-wheel, etc.; the actions of governors; kinetic and potential energy; the simple, compound, and ballistic pendulum, etc.

The materials used in engineering structures will principally embrace the mechanical properties and treatment of iron and steel, and the various forms of "ingot metal"—Bessemer and Open-Hearth in particular—various alloys, timber and cements.

The strength of materials will comprise a combined investigation in class-room and laboratory of the strength of engineering structures, such as beams, pillars, or columns, and girders; the tensile, torsional, and transverse strength of wood and metals, graphic analysis of stresses in various forms of trusses; bursting strength of boilers, etc.

Steam Engineering will include the science of Thermodynamics—the conversion of heat into work in the steam-engine; the attendant losses and means of partially preventing the same; elaborate series of investigations, combined with the practical use of steam-engine indicator; types of indicators; effect of cylinder condensation; losses due to clearance and compression, constructing theoretical cards for compound, "triple expansion," and "quadruple expansion" engines; various types of valve-gears in common use; steam-boilers, etc.

In addition to the course of Steam Engineering there will be given a study of other prime movers, such as turbines, overshot and reaction wheels, and study of the best modern examples, as the "Hercules," "Victor," "Peltan," "Hurdygurdy," etc.

Laboratory practice has been largely indicated in what precedes. It involves the use of various engineering appliances, such as pyrometers, pachometer, gauges, test-pumps, dynamometers, etc. A well-equipped experimental Mechanical Laboratory for carrying on this work is described later under heading, "Department of Experimental Engineering," which see.

There has been constructed in the school-shops, from our own designs, a transverse-testing machine for making transverse tests on iron and wooden beams, of a more delicate character than can be made on our larger machines. This machine reads accurately by quarter-pounds up to two thousand pounds.

For class-room demonstration there are many models, such as link-motion, plain slide-valve motion, section of model engines, pumps, etc.

WORKSHOP PRACTICE.

A distinctive feature of this School is the mechanical workshops, machine-shop, blacksmith-shop, foundry and wood-shop. Especial emphasis is placed on the importance of practical skill and experience to be gained in shopwork of the highest class. Work done here is not merely manual training. Advanced students are invariably employed in all the different shops, on tools and apparatus to be put to some useful purpose when completed.

Work in the machine-shop is confined exclusively to machinery, etc., of our own design. We never buy castings, nor with them the design and drawings, of some machine tool, from some manufacturing concern. We invariably adopt the very much more difficult plan of getting up our own design and drawings, and of making our own castings. The drawings are made by the students, under the direction of an experienced designer, and thus become impressed with the necessity for accuracy, and the costliness of blunders, which impression can be obtained in no other way.

The shops where students practice occupy a commodious two-story building, 310 feet long by 40 feet wide, with wings 30x40 and 12x40. The building contains the general offices of the shops, drafting-room, iron and wood-rooms, engine and boiler-rooms, wash-rooms and foundry. All these rooms are well equipped with the best modern iron and woodworking machinery and tools.

The shops are no longer run on the contract system. No outside work of any kind is done. A general idea of the character of work carried out may be gathered from notices at the end of this article of machines, etc., now being manufactured in the shops. All work done in the shops is from our own designs, from working-drawings prepared by the students under careful and experienced supervision. The work in all departments calls for the highest abilities of the student.

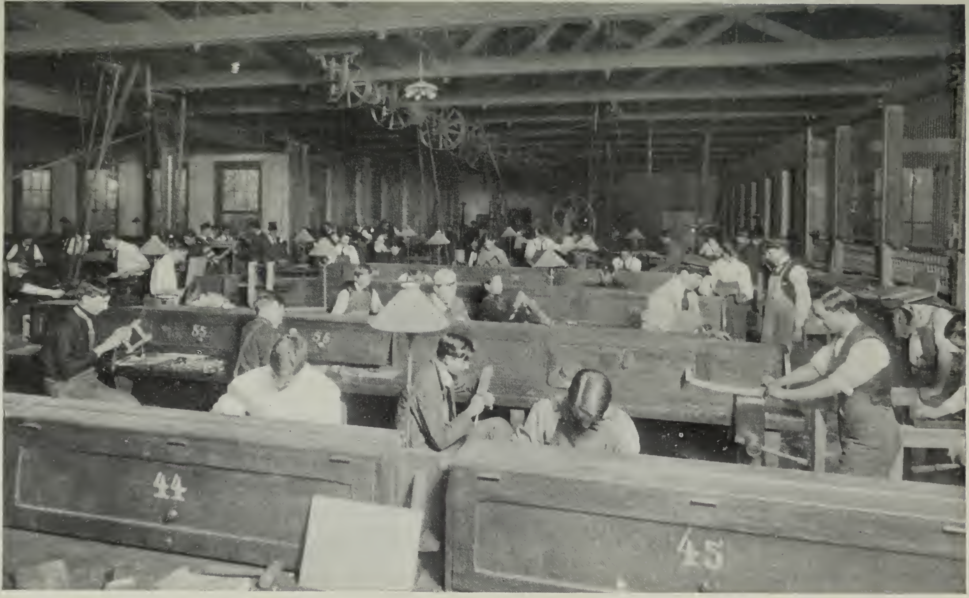
The first or Freshman year is devoted entirely to woodwork. This includes a course of elementary instruction in laying out work with knife and pencil and the use of the ordinary hand-tools, such as saws, planes, chisels, etc. This is followed by a course in elementary pattern-work, introducing the use of the turning-lathe. After these elementary exercises the student works altogether upon practical work, which, for want of a better name, may be classed as cabinet-work. It consists for the most part of equipment for the shops or School, such as cabinets, tables, drawing-boards, physical apparatus, etc.

Instruction and practice is given in the use and care of the woodworking machinery, large and small circular saws, band and scroll saws, cylinder and buzz planers, boring, mortising and tenoning-machines. Four hours per week are devoted to shop-practice throughout the Apprentice year.

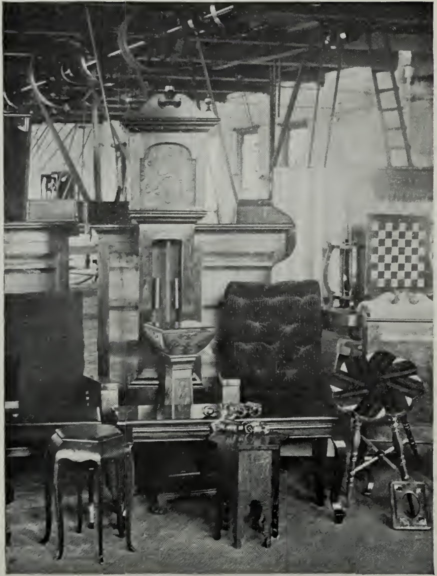
Simultaneously with the foundry instruction, the student is given work in pattern-making. The two processes so closely related are thus carried on together; and the work in the pattern-shop is not merely manual-training school exercises. It is all work of a high class, carefully designed by an experienced practical engineer, and every piece of work forms a part of some useful machine.

Throughout the remaining three years, each student devotes one day each week to the work in the shops. Students who are prepared to pass up the studies of the first year in the academic departments, and enter the school as Sophomores, are required to work one-half day extra each week for three years.

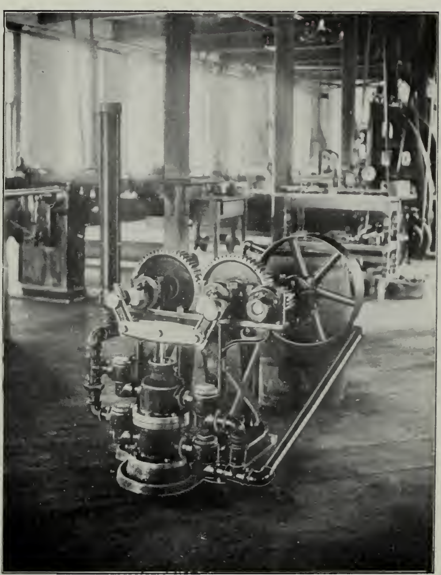
The work in the second, third and fourth years (Sophomore, Junior and Senior) is divided between the four departments of



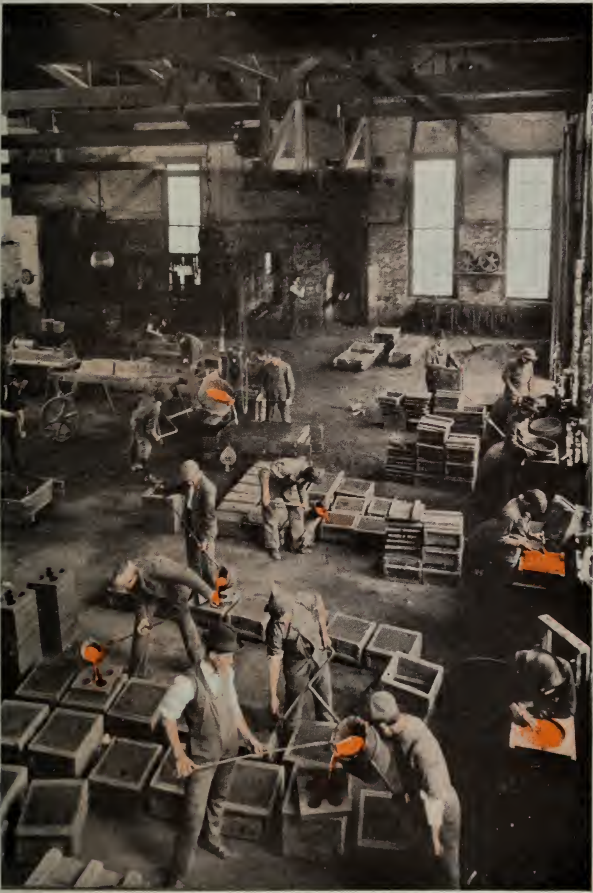
BENCH WORK—WOOD-SHOP.



SOME PRODUCTS OF THE WOOD SHOP.



GEARED BOILER FEED PUMP, BUILT IN
G. S. T. SHOPS.



THE FOUNDRY—RUNNING A HEAT.

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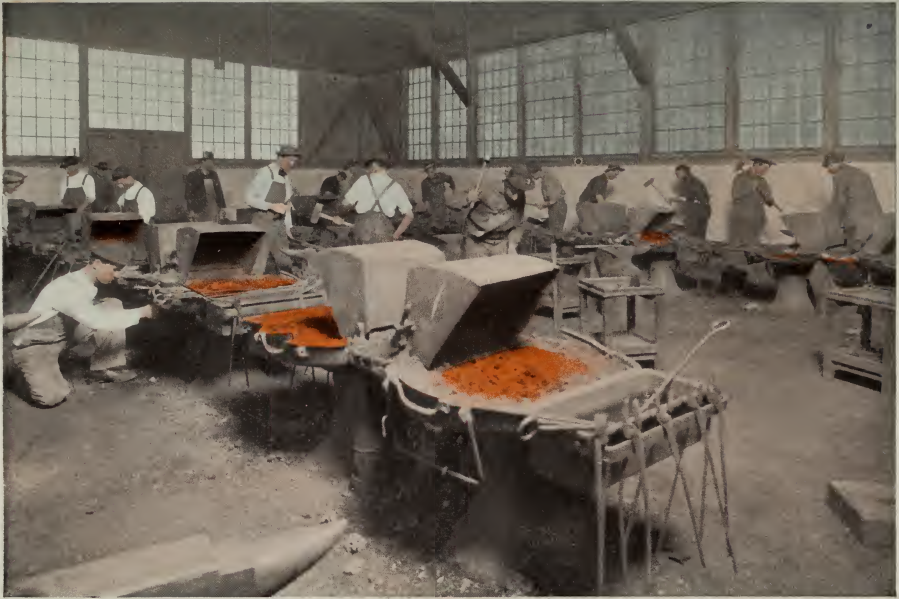
LIBRARY [illegible]



SMITH SHOP.

THE
JOHN CRERAR
LIBRARY.

the shop, viz.: pattern-making, foundry, smith-shop, and machine-shop. During these years more time is devoted to the machine-shop than to any other department.

The foundry, which is unlike most foundries, in being a bright, cheerful place, is thoroughly equipped, having, besides a main moulding-room with a floor area of 40x90 feet, a core-room, two ovens for baking cores, a Collieau cupola in a fire proof annex having iron charging-floor and iron roof, a separate building in which are placed the rumblers and the picking vats, and another building for the brass-foundry.

In the foundry the student is given careful and efficient instruction in green and dry sand-moulding, core-making, mixtures of iron, and brass-founding, and the mixtures of the various useful bronzes, aluminum-casting, and the aluminum bronzes.

The smith-shop occupies a separate new building, embodying the latest ideas in smith-shop construction. It is 37x70 feet with all four sides solid glass. It is equipped with twenty-one forges with Peter Wright's best forged anvils, and blast-pipes and smoke-ducts under ground. Smoke is carried away by a powerful exhaust fan, on the down-draft system, leaving the overhead space entirely free for admission of light. In one end are the foreman's office and a room fitted up with benches and vises for bench-work in forging. The smoke-exhaust fan is located overhead in the foundry (in another building), and the system works admirably. A more efficient and cheerful blacksmith-shop it would be difficult to imagine.

There will be installed in the smith-shop, during the coming year, three double emery-wheel stands, now building in our own shops, for tool-dressing, polishing, etc.

All the shops are lighted by electricity, both arc and incandescent.

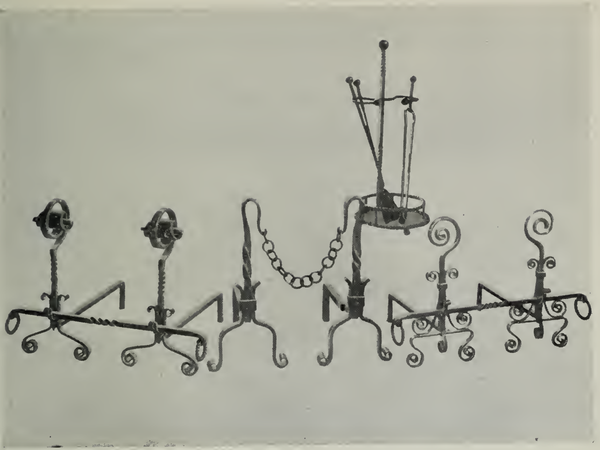
In the smith-shop the student is first given purely manual-training tasks in iron-forging, which are continued only so far as will enable him to acquire sufficient skill to forge some useful article. After that his work is confined to such articles as possess intrinsic value. We received a silver medal at the Cotton States and International Exposition on our display of small tools made in the smithery, such as hammers, masons' and moulders' trowels and tools, turning-chisels, gouges, cold-chisels, swages, spawls, etc. The student also acquires skill in forging and dressing lathe and planer-tools; welding, tempering and annealing steel; the brazing and soldering of various metals, case-hardening, blueing, etc. It is to be distinctly understood that the student does not simply observe these operations as they are performed by a skilled artisan, but is required to acquire the handicraft himself, under expert instruction.

The machine-shop is well-equipped with lathes (two of which are very large ones), planers, grinding-tools, universal milling-machine with spiral attachment, shaping-machine, and a large assortment of small tools in a tool-room conducted strictly on the check-system. To this equipment we are constantly adding tools of our own manufacture, having added a 20-inch by 6-foot iron planer of our own design (upon which we received a silver medal at the Cotton States and International Exposition).

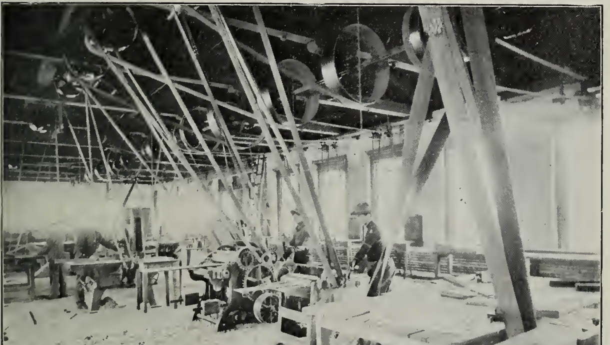
Beginners in this department of the shops are first given instruction in chipping and filing. The elementary tasks are of the usual manual-training school order, the first lesson being to chip and file a rough cast-iron block into a cube, with flat faces, sharp corners and right angles. Only a few lessons of this character are given, as it is felt that here, as elsewhere, the sooner the student can be put upon productive industry the better. It can not be successfully denied that a student takes more interest in work of a useful character than he does in a mere task. He can not be better taught to turn and grind round fits, scrape true, flat surfaces, and cut flutes and spirals in useful articles, parts of machine-tools, for instance, than in manual-training tasks to be cast into the scrap-heap.

Where the head of a department prefers, students in a course under control of that department will be confined to manual-training tasks in the machine-shop.

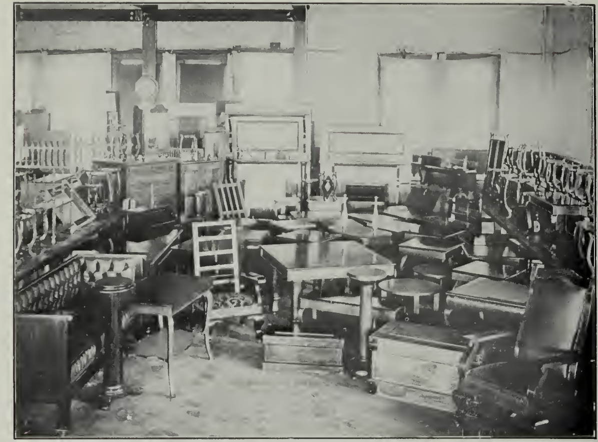
All work of whatever kind in all departments (excepting, of course, the foundry) is done to working-drawings. No haphazard, no chance, no "beginning at nothing and ending nowhere," is allowed. Under certain conditions students are allowed to work in the shop extra time on things for themselves. Work of this character must meet the approval of the head instructor; must be made to a working-drawing or a care-



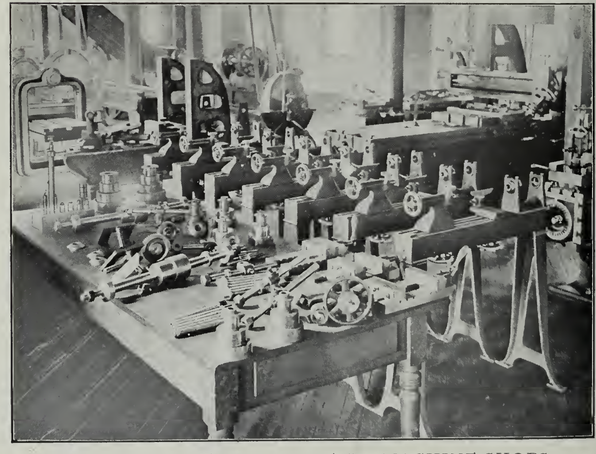
ANDIRONS MADE IN SMITH SHOP.



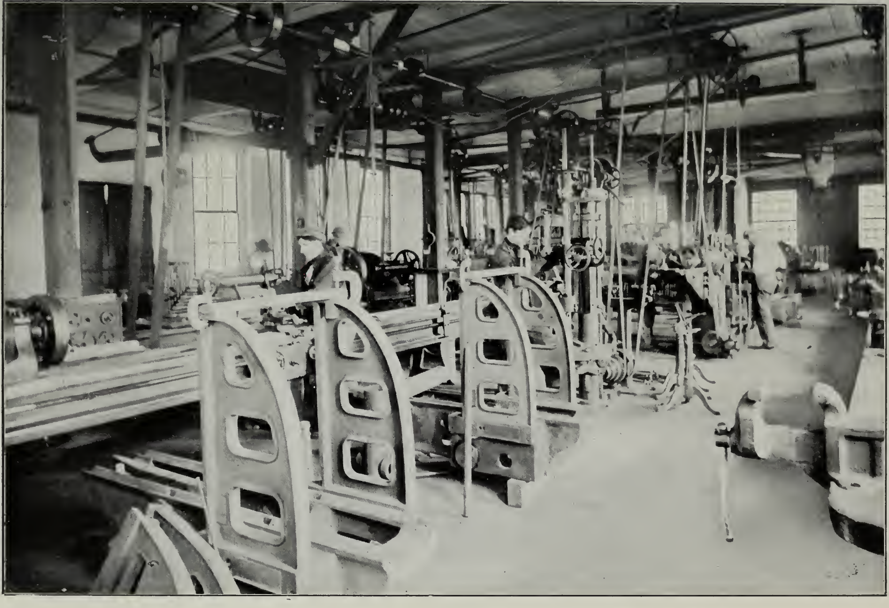
MACHINERY IN WOOD SHOP.



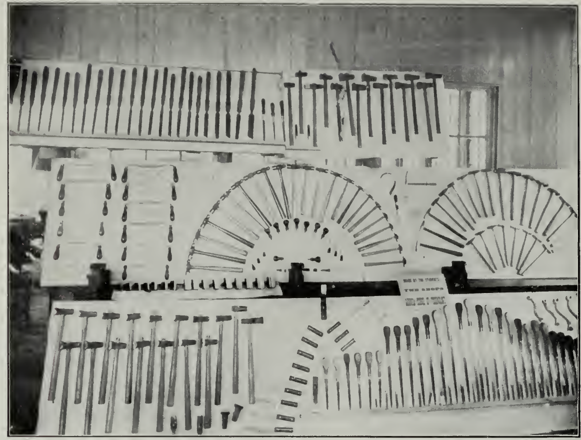
FURNITURE, ETC., MADE IN WOOD-SHOP.



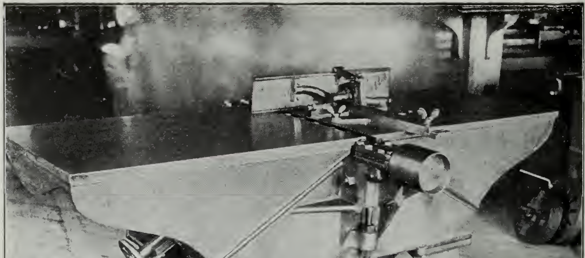
LATHES AND TOOLS MADE IN MACHINE-SHOPS.



IRON PLANERS IN PROCESS OF MANUFACTURE—MACHINE SHOP.



TOOLS MADE IN SMITH-SHOP.



24-INCH BUZZ PLANER, MADE IN SHOPS.

fully prepared dimensioned sketch, and must be of a character to reflect credit on the student and possess intrinsic value. As work of this character, may be mentioned small steam-engines, electric generators, motors, etc.

Students are also instructed in the practical management of the shop steam-engines, boilers, firing, etc.

The following partial list may give some idea of the character and scope of the work done by the students in our shops; some of this work is now in process of construction:

For the Swann Dormitory, sixty-five iron beds, thirty-five oak washstands, sixty oak tables, fifty oak bureaus. Besides this a large amount of furniture for other departments of the School and also much that students have made for themselves and taken to their homes.

Twenty hand-looms for the Textile Department, besides a large amount of repair work. Over one hundred iron drawing-tables, and hundreds of drawing-boards, for the Department of Drawing.

A large number of tools in the smith-shop, such as moulders' tools, drawing-knives, carving knives by the hundred, turning-chisels and turning tools for ourselves.

A fifty-horse-power engine, now driving our shops, made by ourselves entirely, including drawings, patterns, castings and forgings.

Seven double emery-wheel stands.

Four 20-inch by 6-foot iron planers.

A 24-inch buzz planer.

A 12-inch buzz planer.

A power-geared pump for pumping all the water of condensation of our heating-plant back to boilers, boiling hot.

Fourteen wood speed-lathes.

Many electric generators, the largest a 10 K. W. for ourselves.

Many small steam-engines by students for themselves.

For Artisan course, see page 92.

DEPARTMENT OF ENGLISH.

The course in English begins with the Apprentice class, and extends through the Junior class, a period of four years.

The work of the department is required of all regular students, and its importance as the avenue of approach to all knowledge is kept constantly in mind. Particularly is its value to technical students recognized and enforced: first, as supplying the engineer with that equipment of direct, accurate, and vigorous expression necessary to his success in life; and second, as co-ordinating with his scientific training the equally important culture development which is justly demanded of the educated man to-day.

The purposes of the course, then, are utility, which predominates in the first years; and culture, which is the chief end sought as the student progresses in his work.

It is to be recognized and stressed, however, that both purposes are considered fundamental and correlative, and are earnestly sought from beginning to end of the course.

As the institution has no separate department of Economics, a course in Economic Theory is given by the English Faculty.

Courses in General History and Physical Geography have also been placed under the supervision of this department.

Apprentice Class.

PROFESSORS McCULLOCH, STEVENSON AND COLEMAN.

The work done in this class embraces the regular college entrance requirements in English, the class meeting five times a week throughout the year.

The first term is devoted to careful and systematic instruction in Grammar and spelling, and to Macaulay's Johnson and Shakespeare's Julius Caesar. In addition, theme work is begun, and careful instruction is by this means given in sentence-structure and in punctuation.

The second term completes the work in Grammar, and at this time much attention is given to analysis and parsing, and to further special practice in theme-writing. Macauley's Addison, Milton's Minor Poems, and Burke's Oration on Conciliation with America complete the course in English classics.

Monthly declamations are required throughout the year.

Texts: Bartlett and McBain's English Grammar; Benson and Glenn's Practical Speller and Definer; Kimball's English Sentence; a text on Punctuation; various editions of the required classics.

General History will be studied by the Apprentice Class during the first term and Physical Geography the second term.

Texts: Myer's General History, Davis' Physical Geography.

Freshman Class.

PROFESSORS WALLACE, PERRY, BOOGHER, McCULLOCH, AND STEVENSON.

For admission to this class, all the studies of the Apprentice year are required.

The work of the entire year is devoted to the study of Rhetoric, the class reciting four hours per week through the session. During the first term a constructive aspect of the subject is emphasized. Correctness in spelling and grammatical usage are regarded as fundamental. The structure of the sentence, the laws of the paragraph, and the forms of discourse are presented to the student by precept and example. The student is required not only to master theory, but to practice what he has acquired, in writing weekly and bi-weekly themes, which are corrected by an instructor, who points out the error and its remedy, in an individual consultation, at stated intervals. The object of this course is to enable the student to express his thoughts in a correct and effective manner.

Texts: Hill's Principles of Rhetoric and Scott and Denny's Paragraph Writing are used as the basis of the course; it is supplemented by lectures, consultations, and a treatise on punctuation. The following prose work works are read:

The last of the Mohicans, Vicar of Wakefield, and Quentin Durwood.

An appreciative phase of the subject is considered during the second term, when rhetorical principles are studied as a foundation upon which the superstructure of subsequent courses in literature may be reared. Analysis of classical selections, with regard to external and internal elements of beauty, aims to make this course practical.

Texts: Painter's Literary Criticism; selections from the English poets; and the following prose works are read:

Silas Marner, Lorna Doone, The last Days of Pompeii, Tom Brown at Oxford, and A Tale of Two Cities.

Frequent declamations and debates are required throughout the year.

Sophomore Class.

PROFESSORS WALLACE, PERRY, AND BOOGHER.

The first term of the Sophomore year is devoted to the study of American Literature, the class reciting three hours per week through the term.

The course in American Literature is designed to give the student something more than a mere knowledge of facts about American letters; its aim is to give him an appreciation of the meaning and worth of the literature of America; to familiarize him with the masterpieces of American writers; and to cultivate in him a sound critical faculty.

To this end, emphasis is laid upon the study of American classics; and representative works of Irving, Cooper, Longfellow, Lowell, Emerson, Hawthorne, Holmes, and Poe are subjected to a careful analysis and interpretation in the class-room. This class-room study is supplemented by an introductory text, parallel readings, lectures from the instructor, and numerous appreciative criticisms from the student. Versification, also, is studied in the first term.

Texts: Pancoast's American Literature; various editions of American classics; Parson's English Versification.

The second term of the Sophomore year is devoted to the study of Economics.

The course in Economics attempts to equip the student with a working knowledge of the basic principles of Political Economy, to indicate and explain to him the laws that underlie the complex fabric of modern commercial and social systems, and to give him an intelligent apprehension of the nature and meaning of the great economic problems of the present age.

Essays and debates are required throughout the year.

Text: Bullock's Introduction to the Study of Economics.

Junior Class.

PROFESSORS WALLACE AND PERRY.

English Literature is required through the year, the class reciting three hours a week.

It is designed not only to give a brief history of the literature, but to cultivate an understanding and appreciation of what is best therein. To this end, careful and comprehensive study is made of the selected masterpieces of many English authors, and parallel readings are assigned on which written reports are required.

The instructors give frequent lectures on the subjects considered; and, in general, literature is regarded and treated as of value, not simply as a study, but as a part of life.

Texts: Moody and Lovett's History of English Literature; Gayley and Young's Principles and Progress of English Poetry; various editions of English prose classics and of Shakespeare's plays.

DEPARTMENT OF ELECTRICAL ENGINEERING.

This department has for its object the training of men for positions in industrial engineering where a thorough acquaintance with the processes of applied electricity is required.

The course in Electrical Engineering is planned to give a broad outlook in engineering, and is closely articulated with the fundamental sciences of Chemistry, Physics, Mathematics, and Mechanics. The scientific and applied aspects of the several important branches of engineering other than applied electricity (including surveying, steam engineering, machinery design, hydraulics, constructive materials), are given adequate attention; and thorough instruction in the essential scientific elements of the branches of applied electricity, which are now of inestimable importance to the industrial engineer, are added thereto.

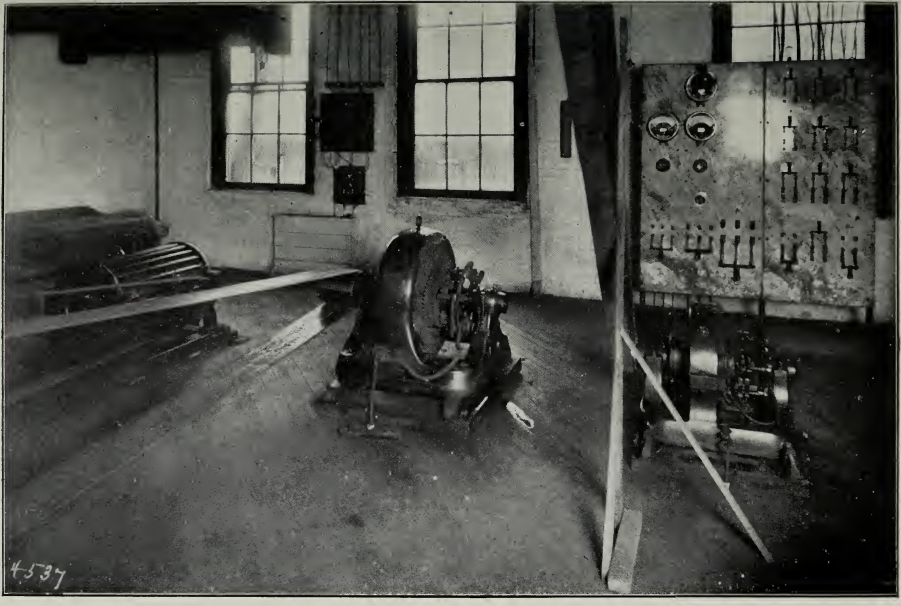
The aim of the course is to produce industrious, clear-thinking young men who are furnished with the scientific and practical equipment necessary for the successful practice of their profession as electrical engineers.

The department occupies the second floor of the Electrical building and a part of the shop.

The power plant is located in the shop and consists of an Atlas engine belted to a 17 1-2 K. W. 110-volt Triumph generator and a 9-light Thomson-Houston arc light generator; with a 6.6 K. W. 110-volt General Electric generator belted from the shop-line shaft. The machines are used to furnish current for lighting the various buildings and power for the Electrical laboratory.

The Electrical laboratory is located on the second floor of the Electrical building, and contains the following machines: A 10 K.W. double-current generator, built in the School shops, capable of supplying either direct, two-phase or three-phase currents; a 5 K. W. 110-volt shunt generator, built in the School-shops; a 6 H. P. 110-volt Commercial series motor: a 5 K. W. 110-volt three-phase Ideal alternator; a 5 H. P. 110-volt three-phase General Electric induction motor; two 6 K. W. 125-volt Edison compound generators; a 5.6 K. W. 125-volt Westinghouse motor generator set; a 10 H. P. 110-volt Stow motor; a 2 K. W. Watson booster set; two 3 K. W. transformers arranged for phase transformation; several 1.5 K. W. transformers; an 11 M. F. adjustable condenser; a complete switchboard and the necessary instruments for the complete testing of the above machines.

In addition to the above, the laboratory contains a complete sending and receiving set for wireless telegraphy; all of the drops, jacks and signaling apparatus for a modern common battery telephone exchange arranged on a skeleton switchboard for convenient testing; a Kelvin hekto-ampere balance and a potentiometer with certified resistances and standard cells for accurately calibrating electrical instruments of any type; vats for electroplating and other apparatus for elementary work in electrochemistry. A photometer room will soon



POWER PLANT FOR ELECTRICAL DEPARTMENT.

STUDENTS AT WORK IN THE ELECTRICAL LABORATORY.

be equipped with a Lummer-Brodhum screen and a compound rotator for determining the intensity and distribution of sources of light. A modified form of oscillograph is also being constructed for determining periodic curves of alternating current and will be a valuable adjunct to the laboratory apparatus.

Besides the technical subjects, including Drawing, Mechanics of Materials, Chemistry, Steam Engineering, Surveying, Hydraulics, shop, etc., which are required of students taking this course, the following subjects are given in this department:

1. Dynamo Electric Machinery.—(a) This course is designed to give the theory of direct current machinery and the knowledge necessary for its selection, operation, and management. Three hours per week during the second term for Electrical Engineering Juniors. (b) This course follows that in direct current machinery, and is an extended course upon alternating currents and alternating current machinery, and their applications. Five hours per week during the first term for Electrical Engineering Seniors.

2. Electrical Laboratory.—An experimental study of the apparatus discussed in Course 1. Tests of various kinds are made in order that the student may become familiar with the use of electrical instruments and the operating characteristics of different classes of machines. Three hours per week during the second term for Electrical Engineering Juniors, and four hours per week throughout the year for Electrical Engineering Seniors.

3. Electrical Design.—A study of the design of various types of apparatus; each student being required to make a complete design of one or more machines. Four hours per week throughout the year for Electrical Engineering Seniors.

4. Electric Lighting.—A study of the various circuits, appliances and methods used in electric lighting. Two hours in the first term for Electrical Engineering Seniors.

5. Telephone and Telegraph.—A study of the various telephone and telegraph systems now in use. Two hours per week during the first term for Electrical Engineering Seniors.

6. Electric Power Plants.—A course on the design, operation, and management of electric power plants. Five hours per week during the second term for Electrical Engineering Seniors.

7. Current Engineering.—This course is given as a seminar, and consists of a review of the current engineering periodicals with a discussion of the principal articles therein, besides papers prepared and delivered by the students, on assigned subjects, including those of factory and central station management, electric railways, etc. One hour per week in the second term for Electrical Engineering Seniors.

8. Electric Railways.—This course takes up the road-bed, rolling stock, electric circuits, and power plants. Also location, construction, and operation. Two hours per week during the second term for Electrical Engineering Seniors.

9. Electric Power Distribution.—A study of the elements of dynamo electric machinery, with the application of such machinery to the electrical distribution of power. Three hours per week in the class-room, and three hours per week in the laboratory during the first term for Mechanical Engineering Seniors. Three hours per week during the second term for Civil and Textile Engineering Seniors and Engineering Chemistry Seniors.

10. Thesis.—The purpose of the thesis is to develop the power to carry out independent investigation; therefore, the subject chosen should be one in which the student takes an interest, and should be within his ability to complete in a satisfactory manner. The subject should be chosen early in the first term, so that the literature on the subject may be looked up before the beginning of the second term, when the experimental work, if any, should be commenced.

The class-rooms are well equipped with models and samples for use in explanations and lectures.

Trips are taken to electric light and power stations and to manufacturing plants to enable the student to become familiar with actual operating conditions.

The Library shelves of the School contain a considerable number of works on electrical engineering, besides receiving twelve different electrical and semi-electrical perodicals. The Carnegie Library of the city of Atlanta also contains a large number of volumes of great value to electrical engineers, and is open to our students.

DEPARTMENT OF CIVIL ENGINEERING.

PROFESSORS BRANCH AND JACKSON.

In this department the constant effort is made to combine theory and practice, and to make both conform to the best of modern practice. The student does just such work as will be required of him when he enters upon his professional work. Special attention is given to the problems likely to occur in the early years of his career, the details are carefully worked out and the misty points made clear. In this way the services of the graduate are made valuable to the employer as early as possible.

The course in Steam Engineering is intended to familiarize the student with the various types of engines, boilers and pumps; to determine what one will best meet the requirements of the work he has in hand, and to test its efficiency. The course in Power Transmission renders the student familiar with the structure, working and testing of electrical machines. He is able to select and test the machine needed for the plant he is designing.

We have for this work four Y-levels, one engineer's transit with Saegmuller solar attachment, one plane-table, with telescopics alidade arranged for stadia, one complete compass, one aneroid barometer, one Thatcher slide-rule, one sextant, one planimeter, pedometers, chains, tapes, rods, etc. We have a collection of valuable designs of existing structures and this is being constantly added to. The studies of this department are:

1. SURVEYING.—(a) Plane Surveying: Structure and use of field instruments, and their application to land surveying and road making. The student is taught to make the survey and map, and to compute the area. He learns to run the level, make profiles, lay the grade on them and calculate the cuts and fills.

(b) Road and Railroad Surveying: The location, construction and maintenance of roads, railroads, street pavements and canals. This includes practice in running the lines, putting in spirals, staking out the work, computing quantities, determination of the meridian, etc.

(c) Topographical and Geodetic Surveying, with the application of the stadia and plane table.

2. MECHANICS.—Analytic Mechanics, theoretical and applied (see Experimental Engineering.)

3. HYDRAULICS.—(a) Theoretical Hydraulics, the laws of statics and dynamics of fluids, the flow of water through orifices, weiros, conduits and pipes, and the determination of the horse-power of the water delivered to the motor.

(b) Hydraulic Machinery.—The principles of the design of Pelton wheels, turbines, etc.

4. The application of Graphical Analysis to the solution of the problems of all subjects taught. This is carried through all the work of the department.

5. MECHANICS OF MATERIALS AND MATERIALS OF ENGINEERING (see Mechanical Engineering.)

6. STEAM ENGINE AND BOILERS (Experimental Engineering).

7. ELECTRIC POWER TRANSMISSION (Electrical Engineering).

8. CIVIL ENGINEERING.—(a) Masonry Structures, walls, arches, dams, buildings of stone, concrete and reinforced concrete.

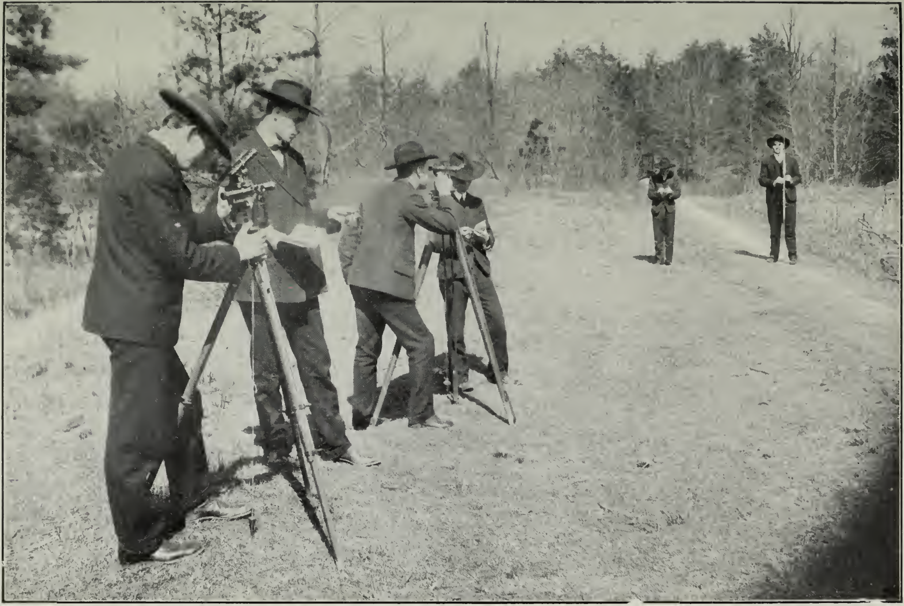
(b) Framed Structures.—Calculation of stresses in roofs, trusses, bridges, buildings, towers and tanks. The detailed design of the structures of wood, steel, etc., to meet these stresses.

(c) Municipal Engineering.—Streets and pavements, water supply, sewerage and its disposal.

For outline of course see page 84.

In the Sophomore year, students are urged to elect Qualitative Chemical Laboratory.

9. THESIS.—The student is urged to select a subject in the line of work which he intends to follow. He will not be permitted to attempt more than can be thoroughly done within the limits of the available time. The problem is to be worked out thoroughly and the results ready for lay-out on construction.



DETERMINATION OF A MERIDIAN WITH SARGMULLER AND SHATTUCK ATTACHMENTS.

PRACTICE WITH LEVELS.

PLANE TABLE WORK WITH STADIA.

TEXTILE DEPARTMENT.

The A. French Textile School.

This department offers unexcelled advantages to the young man who intends entering the textile industry. We believe that the student, on graduating, should have a sound foundation in engineering subjects as well as in the branches relating directly to the textile trade.

We therefore include, besides the usual subjects given in textile schools, such as Carding, Spinning, Weaving, Designing and Dyeing, extensive courses in Mathematics, English, Chemistry, Physics, Mechanism, Mechanics, Drawing, strength of materials, steam-engine, electrical work, mill construction, and shop-work.

The course not only covers the theoretical side of the different subjects, but is extremely practical. For example, with a few exceptions where very fine or fancy yarns are required, we make and dye all the yarn used in the weave-room. This yarn and the cloth produced must be up to mill standards, as it is placed on the market and sold. We believe that no other textile school is run on such a practical basis.

During the second term the Senior class is usually taken on a week's trip to some manufacturing center, where the different systems used in the mill and power-plants are thoroughly studied.

BUILDING AND EQUIPMENT.

The Textile building is a splendid example of architectural skill in modern mill construction. It is equipped with complete systems of heating, ventilating, electric lighting, humidifiers, automatic sprinklers, and, in fact, all apparatus and appliances found in the modern mill.

Great care has been exercised in selecting the equipment, which is the most complete in the world for education in the different branches of cotton manufacture. Several makes of each kind of machine have been installed, thus enabling the student to become familiar with most of the prominent makes now in use.

The equipment consists of:

The Sturtevant system of heating and ventilating, made by B. F. Sturtevant & Co., Boston, Mass.

Complete equipment of automatic fire-sprinklers, from the General Fire Extinguisher Co., Providence, R. I.

System of humidifiers, from the American Moistening Co., Boston, Mass.

Entire equipment of shafting, hangers and pulleys, from Jones & Laughlin, Pittsburg, Pa.

CARDING DEPARTMENT·

GINNING.—One Winship Cotton Gin Feeder; one Winship 60-saw Cotton Gin; one Winship Condenser.

PICKERS.—One Kitson Automatic Feeder; one Kitson Single Beater Combination Breaker and Finisher Lapper with Clarke & Perham's evener; one Atherton 40-inch Single Beater Finisher Picker complete; one lap scale.

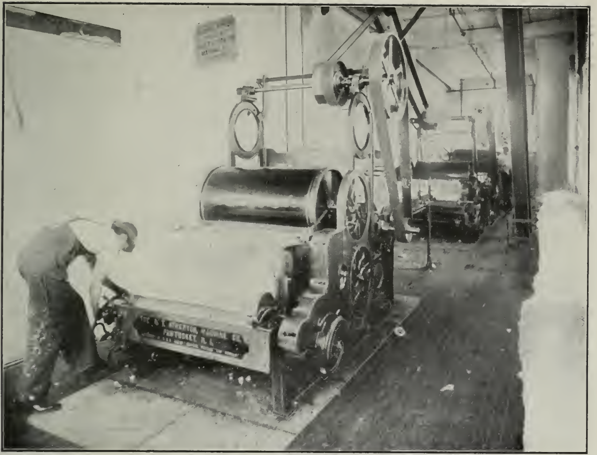
CARDS.—One Saco-Pettee 40-inch Revolving Flat Card; one Whitin 40-inch Revolving Flat Card; one Howard & Bullough 40-inch Revolving Flat Card; one Lowell 40-inch Revolving Flat Card; Grinding, Stripping and Burnishing Rolls—complete set carder's tools.

COMBING.—One Dobson & Barlow Sliver Lap machine; one Whitin Sliver Lap machine; one Whitin Ribbon Lap machine; one Whitin Combing machine; one Dobson & Barlow Combing machine; one Percentage Scale for comber.

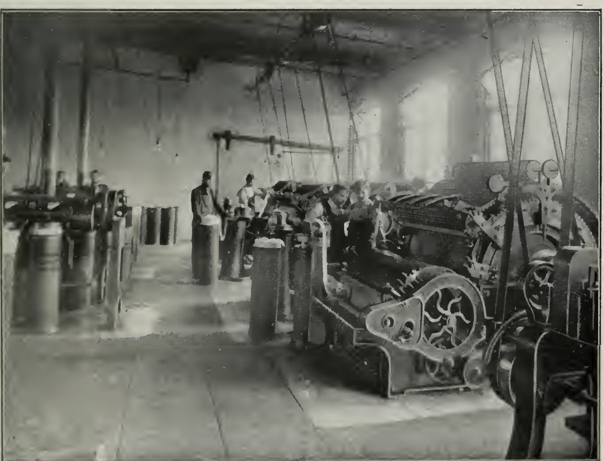
RAILWAY.—One Saco-Pettee Railway Head with evening motion and metallic rolls.

DRAWING.—One Saco-Pettee Drawing Frame, 4 deliveries and metallic rolls; one Whitin Drawing Frame, 4 deliveries, and metallic rolls; one Sliver scale.

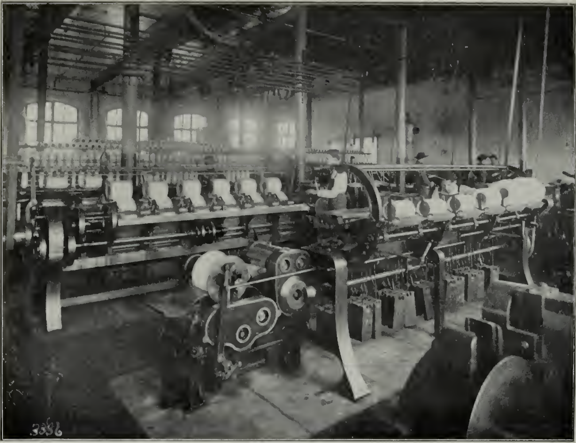
FLY FRAMES.—One Woonsocket Machine and Press Co.'s Slubber, 32 spindles, with Daly's improved differential motion; one Woonsocket Machine and Press Co.'s Intermediate, 42 spindles, with Daly's improved differential motion; one Saco-Pettee Machine Co.'s Fine Roving Frame, 72 sprindles; one Woonsocket Machine and Press Co.'s Fine Roving Frame, 64 spindles, with Daly's improved differential motion; one Providence



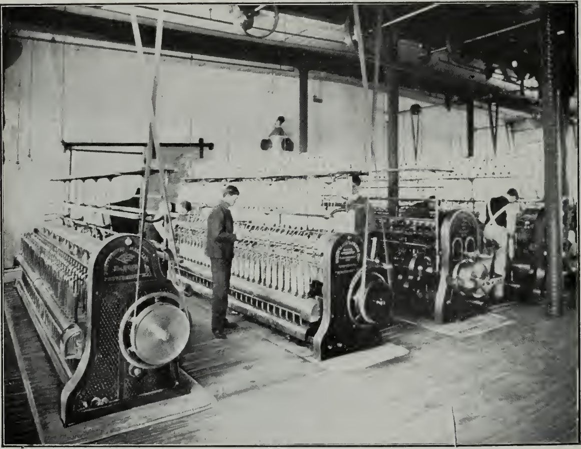
PICKER-ROOM—TEXTILE DEPARTMENT.



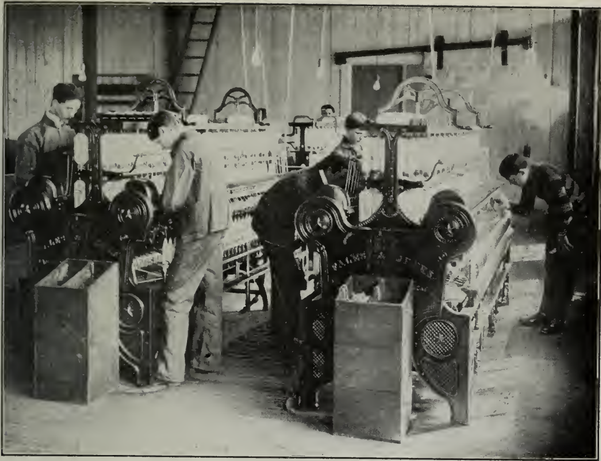
REVOLVING FLAT-CARDS. DRAWING-FRAMES, ETC.



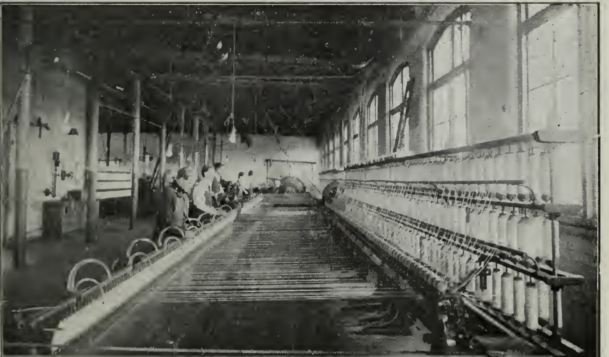
COTTON COMBING AND PREPARATORY MACHINES.



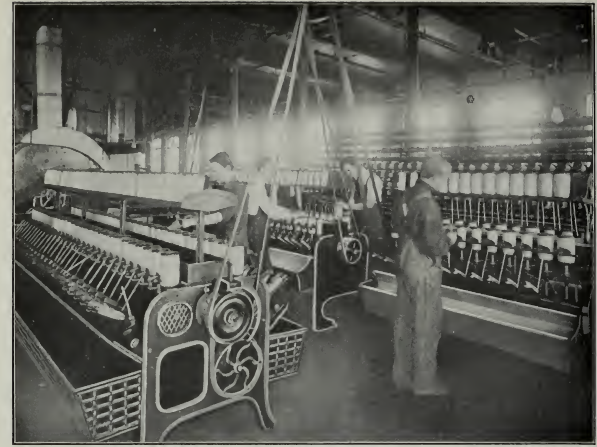
FLY FRAMES IN CARD-ROOM—TEXTILE DEPARTMENT.



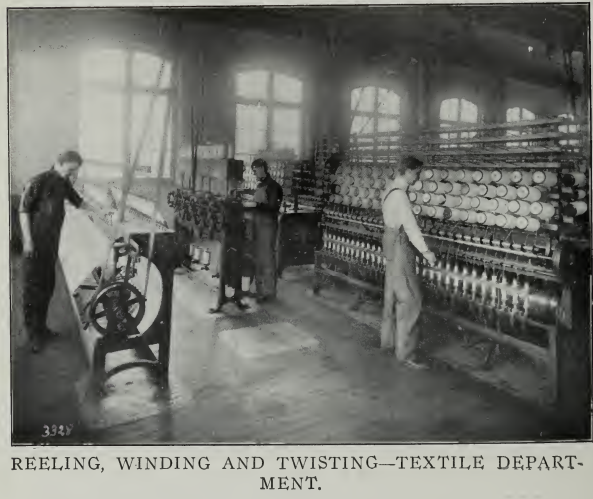
PRACTICE IN RING SPINNING.



PRACTICE IN MULE SPINNING.



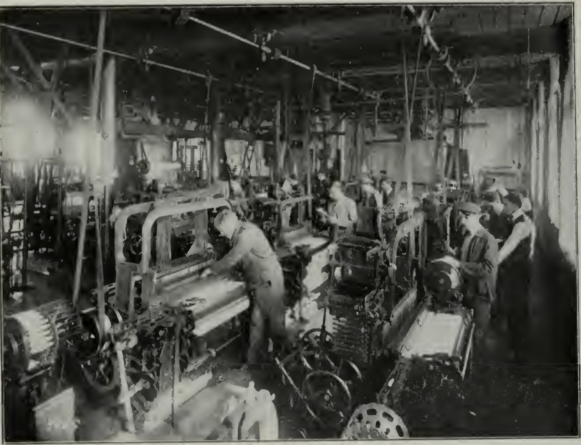
PRACTICE SPOOLING COTTON YARNS.



REELING, WINDING AND TWISTING—TEXTILE DEPARTMENT.

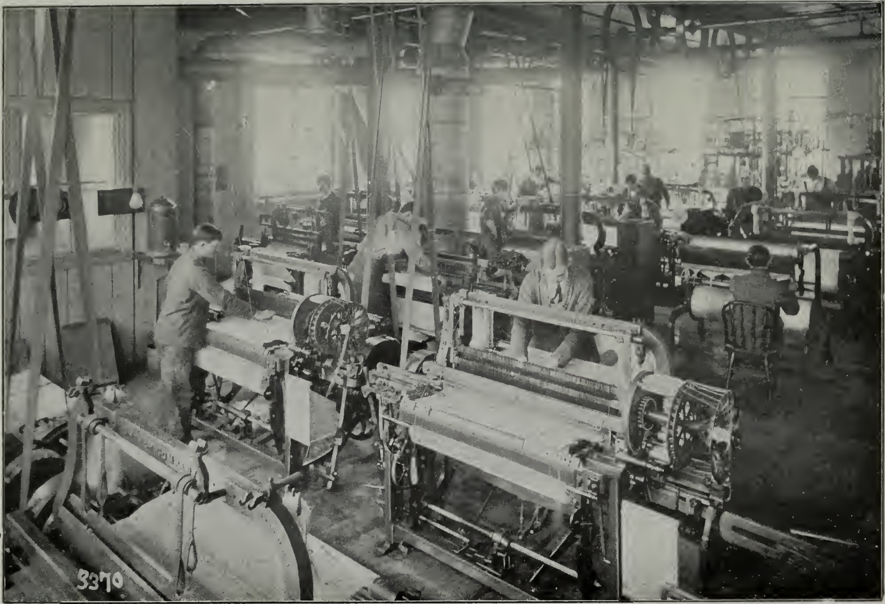
VIEW IN DYE-HOUSE, TEXTILE DEPARTMENT.

PREPARATION OF WARPS FOR WEAVE-ROOM.

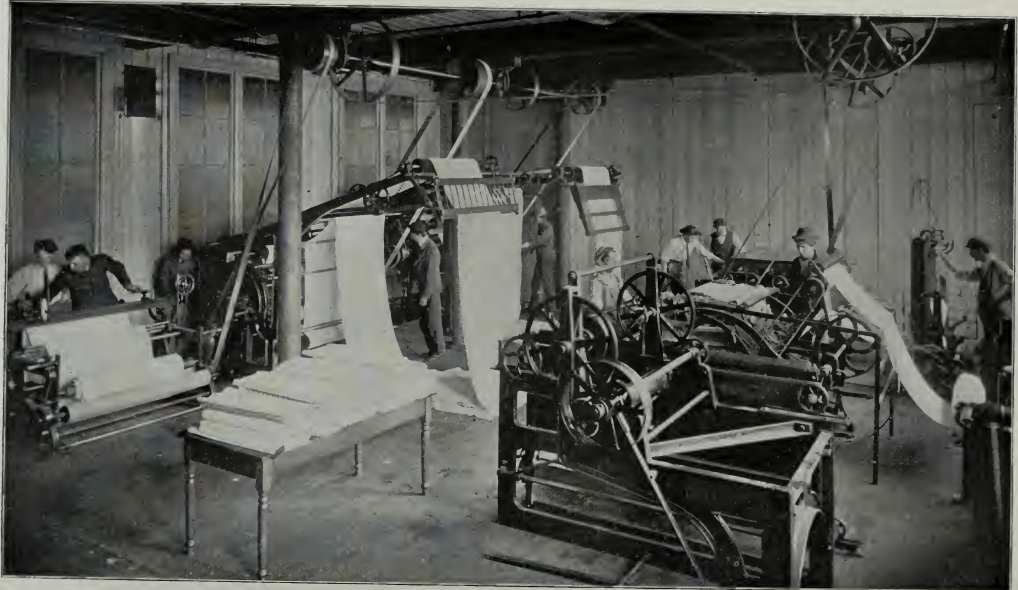


CORNER OF WEAVE-ROOM SHOWING DOBBY LOOMS.

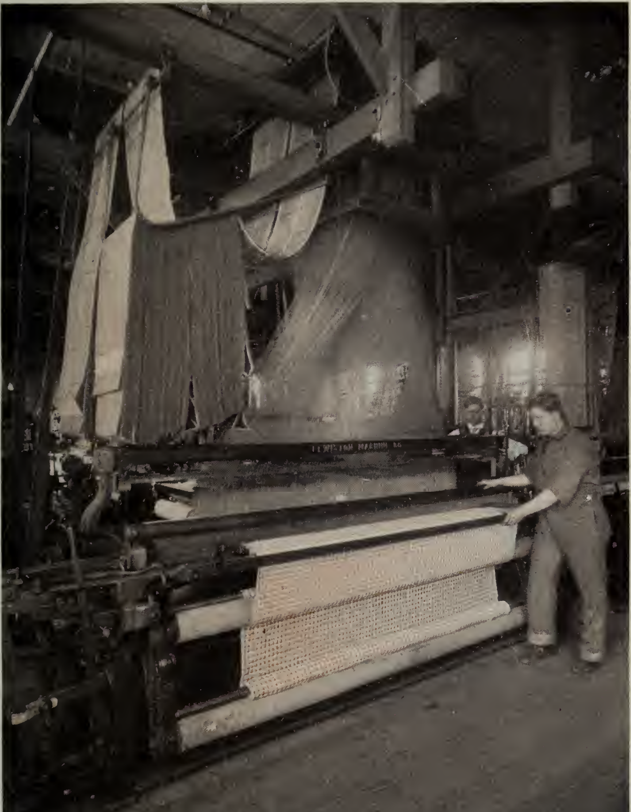
TEXTILE CLASS IN JACQUARD DESIGN.



PLAIN LOOM WEAVING—TEXTILE DEPARTMENT.



CLOTH FINISHING EQUIPMENT.



PRACTICE IN JACQUARD WEAVING—TEXTILE DEPARTMENT.

THE
IOHN CRERAR
LIBRARY.

Machine Co.'s Fine Roving Frame, 64 spindles; one Saco-Pettee Machine Co.'s Jack Frame, 96 spindles; one Roving Reel and Scale; two Laminar Fibre Co.'s roving trucks.

SPINNING DEPARTMENT.

Ring Spinning.—One Fales & Jenks combined warp and filling frame, 80 spindles; one Fales & Jenks filling frame, 80 spindles; one Saco-Pettee Machine Co.'s combination warp and filling frame, 160 spindles; one Howard & Bullough Combination Warp and Filling Frame, 160 spindles.

Mule Spinning.—One Mason Spinning Mule, 360 spindles, 1½-inch gauge; one Yarn Balance and Reel; one Yarn Testing machine for stretch and strength.

Twisting.—One Draper Twister, 128 spindles; one Draper Twister, 32 spindles; one Fales & Jenks combination warp and filling wind Twister, 80 spindles; one Howard & Bullough Twister, 128 spindles; one Twist Counter; one Weeks banding machine.

Spooling.—One Easton & Bernham Spooler, 24 spindles; one Draper Spooler, 40 spindles; one Whitin Spooler, 60 spindles; two Barber & Colman Knotters; one Fairmount Drum Spooler.

Winding and Reeling.—Two Universal Winding machines, 7 spindles; one Fairmount Bobbin Winder, 12 spindles; one D. A. Tompkins Co.'s Adjustable Reel, 50 spindles.

WEAVING DEPARTMENT.

Warping.—One Entwistle Beam Warper with creel; one Entwistle Beaming Machine, with tension drums; one Draper Beam Warper with creel; one Draper Ball Warper with creel; one Cole Bros. Beaming Machine.

Slashing.—One Lowell Cylinder Slasher, 6 beam creel; one Lowell Size Kettle; one Lowell Size Pump.

Hand Looms.—Hand Weaving Room, with thorough equipment of hand bobbin winders, warping pins, hecks, drawing-in frames, and 24-hand looms with 30-harness dobbies, 4 shuttles, 4 beams, let-off and take-up motion, etc.

Power Looms.—One 40-inch Colvin Plain Loom; one Northrop-Draper Print Cloth Automatic Loom; one Northrop-Draper

5 Harness Automatic Loom; two Northrop-Draper 40-inch Sheeting Looms, automatic; one Lewiston Machine Co.'s Pillow-case Tubing Loom, with attachment for weaving plain goods one Lewiston Machine Co.'s 40-inch Plain Loom; three Whitin Plain Looms, five 40-inch Mason Plain Looms; one Lowell Print Cloth Loom; two Kilburn-Lincoln Plain Looms; four 36-inch Mason Plain Looms; one Mutual Machine Co.'s Turkisk Towel Loom; one Mason 32-inch Gingham Loom, 4x1 box, and 2, 3 and 4 leaf under cams; one Crompton Gingham Loom, 6x1 box, and 2, 3 and 0 leaf under cams; one Mason Dobby Dress Goods Loom, single box, and 20 harness for 2 and 3 beam work; one Crompton Dobby Dress Goods Loom, 4x1 box, and 20 harness for 2 and 3 beam work; one Knowles Cotton Dobby Loom, single shuttle and 20 harness for 2 and 3 beam work; one Knowles Leno Loom, 4x1 box, multiplier, easing rods, 25 harness, duplex dobby, for 2 and 3 beam work; one Crompton Dobby Loom, 4x1 box, multiplier, 25 harness, double cylinder for 2 and 3 beam work; one Knowles "Gem" Loom, 4x4 box, Chain multiplier, 20 harness, left-hand for 2 and 3 beam work; one Knowles "Gem" Loom, 4-4 box, Chain multiplier, 20 harness, right-hand for 2 and 3 beam work; two Draper Dobby Looms, with magazines; one Crompton-Thayer Dobby Loom; one Fairmount Dobby Loom, 4x1 box, 16 harness, for 2 beam work; one Fairmount "Ingraham" Harness Motion and Loom, 4x1 box, multiplier, 20 harness, for 2 beam work; one Crompton-Knowles Upholstery Loom, with 600 hook, double lift, single cylinder, Jacquard machine; one Crompton-Knowles Upholstery Loom, with 400 hook, single lift, single cylinder, Jacquard machine; one Kilburn and Lincoln Dress Goods Loom, with 400 hook, rise and fall, rotary cylinder, Schaum & Uhlinger, Jacquard machine; one Stafford Hammock Loom, with 200 hook; single lift, single cylinder, Jacquard machine; one 11-4 Lewiston Quilt Loom, 2x1 box, 1,200 hook, double lift, double cylinder, Halton Jacquard machine; one Crompton Damask Loom, 4x1 box, with 600 hook, double lift, double cyclinder, Halton Jacquard machine; one French Index Royle's Power Card Cutter; one French Index Royle's Foot Card Cutter; one French Index Schaum & Uhlinger Card Cutter; one Royle's Card Lacing Frame.

FINISHING.—One Curtis & Marble Railway Sewing Machine; one Curtis & Marble Brushing and Calendering Machine; one Textile Finishing Machine Co.'s Cloth Drying Machine; one Elliott & Hall 40-inch Cloth Folder; one Windle Doubling and Winding Machine, with measuring attachment; one Parks & Woolson French Napper; one American Napping Machine Co.'s French Napper.

KNITTING DEPARTMENT.

One Branson 7-8 Automatic Knitting Machine; one Scott & Williams Single-lever Automatic Shirt Body Machine; one Scott & Williams Tucker Sleever; one Scott & Williams Automatic Welter.

DYEING DEPARTMENT.

One Dry Room; two Dye Vats, 2x3 feet, regulation depth; one Bleaching Box and Scouring Vat and Pump; one Butterworth Steam Cylinder, for steaming yarns and cloth; one complete set Thos. Phillips Copper Measures; one Thos. Phillips Patcher Steamer; one Granger Jigg Dyeing Machine; one Schaum & Uhlinger Self-balancing Engine-driven Hydro-Extractor; one Berry Ventilating Wheel; one Klauder-Weldon Raw Stock Dyeing Machine; one Klauder-Weldon Skein Yarn Dyeing Machine; one Textile Finishing Machinery Co's Chain Warp Dyeing Machine; one Draper Winding-on machine; one Draper Winding-off machine; one Textile Finishing Machinery Co.'s Chain Warp and Cloth Drying machine.

The Dyeing Laboratory is fitted up complete for experimental dyeing analysis, etc. Students have access to our splendid collection of dyestuffs, which is, we believe, the most complete in the United States.

FIRE PROTECTION.—One Fales and Jenks Iron Rotary Fire Pump; complete system of automatic fire-sprinklers; fire pails.

HUMIDIFIERS.—Complete system of "Drosophore" and "Vortex" Humidifiers and Pump, with connections, donated by the American Moistening Co.

POWER.—One Hundred-H. P. Boiler, donated by Thayer & Co.; one 60-H. P. Corliss Engine, from the Lane & Bodley Co.; Shafting, Hangers and Pulleys, donated by Jones & Laughlin.

Department of Textile Design.

FABRIC STRUCTURE.

The study of the above subject includes fundamental principles of the structure of fabrics; classification of fabrics; "balance of cloth" necessary to give the maximum of wearing qualities and best general appearance; economical construction; texture calculations; for "solid" weaves; for "combination" weaves; take-up in weaving; its relation to the different combinations of textures and weaves; examples of weaves which take up warp and filling at different rates; influence of twists on the appearance of the fabric; influence of the texture on the appearance of the weave in the fabric; examples of fabrics in which it is more suitable to use one class of weaves than others; influence of twists on textures; proper textures for single cloth; finding the diameter of yarns; calculating textures by diameters and interlacings.

Proper textures for double cloth, triple cloth; textures for fabric in which the layout of warp and filling are unequal; changing textures from one weave to another; methods of increasing or decreasing the weight of fabrics without affecting its general appearance; system of adding an extra warp or an extra filling; stitching the same; stitching fabrics in which the layout of warp and filling is different. Stitching double cloths, triple or more ply cloth.

Method of stitching a silk stripe or plaid on a plain cotton fabric. Stitching fabrics after a motive for the purpose of ornamentation. The uses of stuffer-filling and warp and the manner of their introduction into the fabric.

FABRIC DESIGN.

Includes the formation of fabrics by interlacing threads introduced at right angles; method of representing the interlacing on "square" or "point" paper; the terms "warp," "filling," "raiser," "sinker," "weave," etc., explained; planning the weave; the three foundation weaves; the plain or cotton weave; producing fancy effects on a plain weave foundation; color effects representing the same on point paper; derivative weaves; plain and fancy basket weaves; warp, filling and oblique ribs;

planning drawing-in drafts and chain-drafts on paper; reducing weaves to their lowest number of harness.

TWILLS.—Common twills; representing color effects on twilled grounds; derivative weaves; broken twills; pointed twills; fancy pointed twills; plain and fancy skip twills; steep and reclining twills; entwining twills; curved twills; cork-screw twills; fancy twills; double twill effects; shaded twills; fancy ground weaves on twill foundation; fancy effect in twill combinations.

SATINS.—Warp and filling effect; double satin; broken satin; satins broken after motives; ground weaves on satin foundation; fancy effects in broken satins; satin granite weaves; fancy granites; satin shading.

The above weaves enable the student to know the origin and application of all the simpler weaves used in the designing of all classes of textile fabrics. The following are also given:

Spot and stripe weaving; plain fancies and brilliant; fancy satin stripes on plain ground; other combinations of the plain weave with satins and twills; the various imitations of leno or gauze weaving; satin stripes; fancy ground weaves, derived from twills by combinations; honey-comb weaves; madras combinations; floating warp for same; Bedford cords and their combinations; huck and "Turkish" toweling; fabrics consisting of one or more system of warp interlacing with one or more systems of filling; double and triple cloths as applied to very heavy cotton fabrics; stuffer warps and fillings; double plains; figured double and triple plains; figured dress-goods using an extra warp or filling for ornamentation; double-faced or figured reversible fabrics; seamless bags; method of stitching in the sides and bottoms of bags; plain piques or "welts;" fancy piques; piques as applied to Marseilles quilting; combinations of single and double plains in dress-goods; other "novelty" weaves; methods of stitching a silk stripe or plain on a cotton fabric; pile fabrics, cut and uncut; cotton specialties, swivel spots; lappet designing; principles of gauze weaving; doups and easing-rod; standard skeleton and ground harness; leno effects; plain and fancy gauze in the same fabric.

FABRIC ANALYSIS.

Includes yarn calculation leading to, and preparatory to analysis; standards of yarns; systems of numbering; obtaining the "count;" counts of single and doubled yarns; grading two, three, four or more ply yarns; standard woolen, worsted, silk and linen yarns; determining the counts of these yarns in the cotton system of numbering; weight, count and yard calculations; estimating qualities and cost of the minor threads in making fancy twists; contraction in twisting equal or unequal minor threads; obtaining the resultant counts and cost of the same; counts of minor threads necessary to produce a desired count; estimating the cost of woven fabrics, drafting and chain building; finding apparent cost per yard finished; reed, heddle and harness calculations.

The instruction in the Junior year is carried along the above lines, the object being to make the student familiar with the rules and best system of cloth analysis. He is furnished with samples of all grades of cotton fabrics and his analysis of the same must be complete and thorough in every respect.

On the completion of this year's work the student should be able to analyze and reproduce any sample of cotton goods submitted to him, given the necessary machines and materials.

THE JAQUARD MACHINE.

The instruction relating to this machine includes its history and development; relation to harness machines; its method of producing ornament; analysis and description of its principal parts.

Locating the number one needle on the machine; French index; fine index; analysis and drawings of the vital parts of the single life, single cylinder, raise and drop; double lift, single cylinder; special machines, showing their internal mechanism; the tie-up; English system—front cylinder, back cylinder; French system—left cyclinder, right cylinder; description and uses of the leashes, couplings, mail, lingo, etc.; the comber or "compart" board; sectional; solid; threading from the front and from the back.

Tracing effects of "raisers" and "sinkers" on the design through pattern-cards and machine to the fabric; drawings of straight-through and point tie-ups; journals and journal tie-ups; tie-ups for gauze weaving; slackening mechanisms and other motions necessary in doup work; running tie-ups in connection with harness-work; tie-up calculations.

JACQUARD DESIGNING.

Includes the methods of producing ornament by mechanical means; laying out designs for economical production; original sketches in fabric size; distributing forms on original sketches in fabric size; distributing forms on original sketches, so as to produce symmetrical effects; "all-over" effects, "stripe" effects, "checker-board" and "diagonal" effects; selection of proper designing paper in regard to texture to be employed; determining the number or hooks to be used, number of ends in a repeat and the number of repeats; enlarging and reducing sketches by the "square" system to the area to be occupied on the designing paper; transferring the pattern to design paper; painting in the sketch; stitching warp and filling floats by means of satin, twill and random stitches; indicating the ground weave; locating the number one, its influence on the directions of twills by its position on the comber-board; shading forms by satin and by twills; making complete designs for straight-through and center-point tie-ups as such, and in their various combinations; ruling paper for card stamping; card stampers' instruction; stamping so as to make the load in weaving as light as possible; fabrics woven face up; fabrics woven face down; cutting and lacing cards; analysis and reproduction of Jacquard patterns; two or more ply Jacquard cloths; method of representing the various warps and fillings on design paper; color in Jacquard design; card stamping on reduced textures; complete designs for quilts, spreads, fancy table coverings, damask and other Turkey reds, dress-goods, vestings, curtains, towelings, lap-robers, hangings, upholstery, etc.

Department of Carding and Spinning.

CARDING.

The study of the cotton fibre, including botanical classification of cottons; location of the more important cotton-producing districts; primary species peculiar to each; Egyptian, Brazilian, Peruvian, Arabian, Indian and other cottons, commercial names and comparative values; spinning properties and suitability for the different yarns; American cotton, Sea Island, Orleans, Uplands; commercial grading and classification; the chemical and physical properties of cotton.

GINNING.—History and development of the processes now in use; the roller-gin, as applied to the long-staple cottons; its construction and principle of extracting the seed; the rollers, beater, knives; feeding mechanism; proper speeds; setting the parts; their action on the fibre; merits of the roller-gin; the saw-gin; its construction and principle of extracting the seed; pneumatic conveyers used in connection; various feeding mechanisms; the apron, rollers and guard; setting, speeding and operating the parts; action of the saws; grate, brush and condensers; different systems of packing the bale; square bale; cylindrical bale; compressing; commercial handling; buying cottons; points to be considered; detection of moisture and other impurities; methods of handling and drying out damp cotton; selection of grades most suitable for various yarns.

MIXING.—Its object, necessity of; merits of the different systems employed in laying out mixes; proper method of building and pulling down mixes; blending stocks; proportioning grades; examination of lengths and diameters of the fibres; color, cost, waste and production considered; trial mixes; records of percentages of waste; comparative tests for strength and for ecenomincal production; spinning qualities considered; the bale-breaker, its action, capacity, cost and construction; mixing calculations; pneumatic conveyors; their construction and use; airing and aging cotton before working; precautions against fires; automatic fire extinguishers.

THE PICKER ROOM.—Arrangement of pickers and dust-trunks; forms of dust-trunks; automatic feeds; mechanisms for regulating the feed; production and cost; the pickers; breaker; intermediate; finisher; the cost, capacity and operation of each; their action and method of opening and cleansing the cotton; analysis and description of their working parts; setting and speeding; air current; dust-trunks; feed rolls; beaters; grids and bars; dust cages; method of forming the laps; compression rolls; winding mechanisms; automatic measuring and stop motions; beaters; beater speeds and bearings; bar beaters; frail beaters; porcupine beaters; evening motions; the piano feed; its methods of evening the feed; construction and principle of operation; other evening motions; lap changes and calculations; miscellaneous instruction; general practice on the machines.

Carding.—Its history, growth and development; the principle of carding; types of carding-engines, roller cards; stationary-top flat cords; revolving-top flat cards; the production, cost, construction and merits of each of the above systems; methods of setting; draughts and change gears; percentage of waste; calculating productions; stripping motions and appliances; turning up and clothing cylinders; clothing flats, card-grinding frame, traverse roll and flexible strickle; grinding flats, cylinders, workers and strippers; needle, diamond, plough and hooked points on card wire; clothing flats and cylinders; carding, both white and dyed stock; lap machines and combs; their action and operation explained; railway heads; systems of drawing with and without railway heads; their combination with section carding; independent heads; chain, screw and other evening motions; their construction and use; draught rolls; leather-top rolls; metallic rolls; draught calculations and change gears; stop-motions; the coiler; its construction and use; drawing and weighting; leather rolls; metallic rolls; stop-motions; production and cost of the machines; the one-frame and three-frame processes; leather rolls, metallic rolls; stop-motions; their mechanical principles; suitable draughts for the various slivers; calculating draughts and draught-change gears; productions of the drawing frame; practice on the machines; the fly frames; slubber, intermediate, roving and jack frames; the principles involved and the construction of the modern machines; their history and development; their mechanism explained; drawings of their vital parts; the draught rolls; their setting and use; building the bobbin; the flyer leading; the bobbin leading; the builder rail; the differential motion, kinds, its action; drawings of, analyzed and described; the tension and lay change gears; draught and twist changers on slubbers; intermediate, roving and jack frames; productions; calculating the same; proper speeds; setting up and operating the various machines.

SPINNING.

Ring spinning; its history; construction of the modern spinning frame; spindles; kinds in general use; spindle speeds; the theory of spinning; rings; travelers; sizes suitable for different counts; builder-motions; their construction; warp and "filling" motions; cams used; traverse; traverse rail; the draught rolls; covering solid and shell rollers; setting the rolls to suit the length of staple; calculation in draughts and draught-change gears; proper draughts and speeds for different counts; twists; soft medium and hard twists; hosiery and doubling twists; standard twists; change-twist gear; draught and twist constants; cap and flyer spinning; principles explained; their disadvantages; cotton yarn measure; changing from one count to another; hank roving and draughts; twists; rules for obtaining the contraction; increasing production economically; ring twisters; wet and dry; reeling standard skeins; mule spinning; its history and development; self-acting mules; the mule-head stock; analysis and description of its parts; the sequence of movements; timing the same; speeds the parts; scroll shaft; back shaft; counter-faller shaft; cam shaft; the spindles; method of driving the same; the construction and operation of the carriage; the fallers; building bobbins and cops; the quadrant; its functions; the roll; draughts; calculations; drawings of the vital parts of the head stock; traveling scavengers; rope and band making; calculations necessary to their production; preparation of yarns for the market; spooling, winding, reeling and bunching yarns; packing, baling and boxing for transportation.

The instruction in carding and spinning consists of illustrated lectures, recitations from technical text-books, and demonstrations, in addition to the large amount of practical work required in operating, taking apart, erecting, repairing and caring for the several machines.

The student will be drilled thoroughly in all the calculations pertaining to carding and spinning.

Especial attention is paid to the grinding and setting of the cards, and to the manipulation of both white and colored stocks.

An amount of warp, filling and ply yarns is required to be produced by each student, he making all necessary calculations and performing all the operations on the machines under the immediate direction of the instructor in charge.

Department of Weaving.

The instruction in this department includes: Warpers; types of warpers; their construction; mechanical and electrical stop-motions; electrical indicators; long and short chain warpers; loop-forming mechanisms; long chain quillers; their use; section warping; pin warping; splitting-in pins; proper tensions; building pin warps; beam warping; beamers and creels; the single-ended electrical stop-motion and indicator; mechanical stop-motions; measuring devices; warp and warp yarn calculations; slashing; its object and effect in weaving; slashing warps; the steam cylinder slasher; advantages and disadvantages of this system; drying surface of the cylinders; hot air slashers; their construction; arranging beams on the creel; the size vat; heating the same; immersion and squeeze rolls; coverings for the rolls; the separator rods; leases; winding mechanism and variable speeds; measuring and cut-marking devices; size kettle; receipts for sizing compounds; mixing and cooking sizes; nature of yarns considered in sizing; drawing-in, tying-in and twisting-in warps; the care, cost and construction of loom harness; drawing cross and fancy draws; harness and heddle calculations; reeding; American and English systems of numbering reeds; selection and care of reeds; reeding in plain and fancy patterns; reed calculations; looming-warps; history and development of weaving mechanisms; handlooms; plain weaving; shedding, picking, lay, let-off and take-up motions; methods of forming the "shed;" the cam and scroll-looms; methods of strapping-up, leveling and adjusting the harness; picking-motions, principles of their construction; the lay or batten motion; let-off motions; friction and mechanical take-up motions; positive and conditional; change-gears; pick-constants; warp stop motions; filling stop motions; protectors, magazine-looms; their construction; changing plain looms to weave fancy cotton fabrics; gingham-looms; box-motions; simple and compound levers for actuating the boxes; box-chains; their planning, building, and manner of controlling the boxes; multipliers and multiplier chains; circular boxes; witches; dobbies and "head-motions;" open and close shed head-motions; single and double cylinder; single and double acting dobbies; chain-building for the same; special looms for such fabrics as leno, lappet, bags, towels, etc.; doup selvages, side and center; fringe-weaving explained; lectures and practice in loom-fixing; lining the loom-parts; shuttle troubles and their remedies; filling-cutting; the use, care and building of box-chains; repeaters and multipliers; boxes controlled by the Jacquard machine; putting in pickers, picker-sticks and connections; picking-motion; their mechanical construction explained; cam and cone, alternating pick and sliding pick motions; warp-stop motion; filling-stop motions; knock-off lever, shipper and fork; protector, temples, let-off and take-up motions; Northrop looms; analysis of the filling changing mechanism; proper loom-speed; increasing the production of looms; miscellaneous weaving calculations; finishing; inspection of cloth; detecting and making imperfections; burling, mending; trimming; singeing and brushing machines; operation and care of the same; emery-rolls; sand-rolls; wire-nappers; washing, tentering and drying machines; folding, doubling, and board rolling; methods of numbering, labeling, etc.; stamping and pressing; boxing and bale-packing.

Instructions on weaving, in all its branches, will be given by means of lectures, recitations, demonstrations, and practice on the splendid equipment of looms.

Department of Dyeing.

This department occupies the east end of the basement in the A. French Textile School. The laboratory and dye-houses are well-equipped with all necessary apparatus, chemicals, dye-stuffs, fixing agents, etc., for proper instruction. The school owns a valuable collection of dye specimens, yarns, chemicals, dye-woods, and coloring-matter.

Bleaching the common fibres demands special knowledge, and rapid advances have been made through careful study of the chemistry of this subject. Large works are erected for bleaching and dyeing in the varied forms of manufacture, and the industry calls for men who have had a good training in chemistry.

It is the object of this course to give the student a clear idea of the fundamental principles which underlie the arts of bleaching and dyeing, by means of lectures, recitations, experiments and research. The department also dyes and bleaches the yarns used in the weaving department of the School, thus giving the student a large quantity of practical work throughout the year.

The outline of the course is as follows:

Dyeing and Bleaching are taught by means of lectures and recitations two hours per week through the year. The following mentioned lectures are examples: Cotton Bleaching, Mercerized Cotton, Artificial Silk, Wool Scouring, Silk, Linen, Carbonizing, History of Dyeing, Theories, Water, including impurities and purification, Natural Coloring Matters, Artificial Dyestuffs, Mordants.

Experimental Dyeing.—The Senior class works in the laboratory and dye-house four hours per week through the year. The student bleaches cotton cloth and yarn, and dyes several kinds of textile materials on a small scale, being furnished with cotton, wool and silk for this purpose; and the class also dyes larger quantities of cloth and yarn for use in our Weaving department. Each student is required to mount specimens of his work on suitable cards, with the necessary notes, for future reference; several of these cards are retained as the property of the School. The work includes *Technology of Vegetables and Animal Fibres,* Cotton, linen, wool, silk, etc., chemical and physical properties, microscopical study, action of chemicals, heat, frost, etc. *Operations Preliminary to Dyeing* Bleaching, wool scouring, silk reeling and scouring, action of soaps, etc. *Chemicals not Dyestuffs.* Aluminum, iron, tin, chromium, copper and organic mordants; fixing agents, levelings agents and assistants. *Natural Coloring Matters.* Application of indigo, logwood, cutch, fustic, Brazilwood, cochineal, etc. *Artificial Coloring Matters.* Examples from each class are studied and applied by the student. *Compound Shades. Matching off. Testing and Valuation of Dyestuffs.* The samples dyed are tested to permanence against the action of light, friction, washing, acids, alkalies. *Detection of Dyes in the Fiber. Comparative Tests. Manufacture of Dyes.* The class prepares dyes and then applies them properly.

Textile Mechanics and Mill Engineering.

Besides understanding the different processes of cotton manufacture, a mill superintendent is called upon to manage the motive-power, operation and general economy of an entire plant. To this end a special course has been provided in the department of Mechanical Engineering.

It includes, first, during the second term of the Junior year, a thorough investigation of the laws of statics, with special attention to the solution of practical problems by moments, three forces meeting in a point, resolution of forces, resultant of parallel force and center of gravity of bodies. The simple machine and the underlying principles of the lever, wheel and axle, inclined plane, pulley, screw, etc., are discussed, together with friction, its cause and effect. The student then takes up the study of dynamics, based on Newton's laws of motion, and problems involving mass, force, momentum, acceleration, and inertia are theoretically investigated. In connection with this course a series of lectures on the kinetic energy of fly-wheels and the bursting tendency due to centrifugal force, is given; also means of determining efficiency and horse-power of water-wheels. In the first term of the Senior year the student takes up Strength of Materials. In studying this subject, attention is directed especially to the action of simple stresses in the different building materials. The transverse strength of beams is thoroughly investigated, and expressions of the bending moment and resting moment are thoroughly brought out; the resilience of materials is introduced, and methods are explained for determining the formula for torsion in shafts, and the amount of horse-power transmitted. In connection with this work, a series of lectures are given on designing lap and butt joints, and methods of determining their efficiency, including the pressure in boilers, tubes, water pipes, etc.

The second term of the Senior year is devoted principally to the steam-engine, power-transmission, and machine-design. In this course special attention is given to the economy of the different types of boilers, and of fuel and water, with means of preventing corrosion, incrustations, and general destructive elements. Attention is given to the management and design of the principal settings and fittings, stacks, economizers, pumps, and injectors. In the study of the steam-engine the student takes up the first theoretical types and then from the mechanics of the steam to the commercial types. Especial attention is given to the design and operation of errors in these by the indicator diagram. In the second term of the Senior year a thorough course is given in Mill construction, Mill Ventilation, Mill Sanitation, and Fire Protection. Humidifiers, sprinkler systems, and heating systems are studied in detail. The student in this course also has the advantage of attending a course of lectures in the management and operation of manufacturing plants.

Special Textile Course.

In order to accommodate to a limited extent a class of young men who may not have the time or means to take the full Textile Course, a special course in Textiles is offered, which may be finished in two years. As students taking this course are in the mill at practice every day in the week, in order that they may not interfere with the regular students, only a limited number (24) can be taken. All applicants for this course are required to pass an examination in Arithmetic, and must be especially proficient in the following subjects: compound numbers, ratio and proportion, percentage, involution and evolution, alligation, and mensuration. In case there are more than twenty-four, those who are most proficient in the Arithmetic examination will be allowed to enter. The requirement in Arithmetic is absolutely necessary for the success of the student. In the practical work which he receives in the mill, in the calculation of speeds, etc., no time is available for drilling the student in the principles of Arithmetic. All of his time is taken up in practice and such recitation work as will benefit his practical knowledge of Textile work. This course is not accompanied by a certificate or degree.

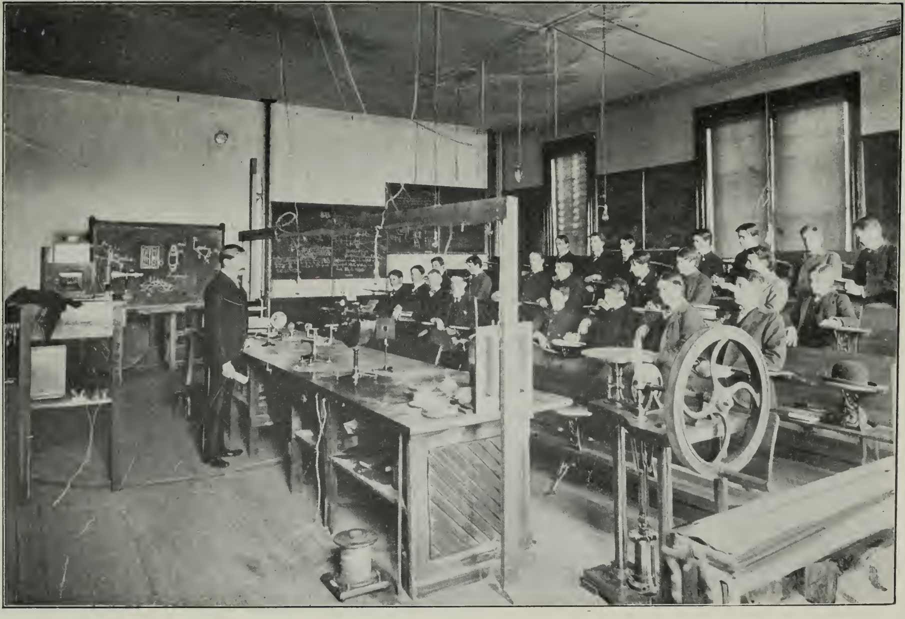
DEPARTMENT OF PHYSICS.

Professors Edwards and Payne.

The aim of this department is to present the fundamental principles of Physics, the experimental basis upon which they rest, and, as far as possible, the mathematical reasoning employed in the deduction of various physical formulas. The student is not only made acquainted with certain physical laws in accordance with which physical events occur, but is taught that all physical quantities can be represented by symbols, and that certain mathematical relations exist between them, in consequence of which logical deductions can be made.

The study of Physics is taken up in a thorough and systematic way. Numerous problems are assigned in recitations, in order to familiarize the student thoroughly with the significance and practical use of the principles which he learns and the physical formulas which he sees deduced. One experimental lecture per week is given in this course.

The lecture-room is provided with various facilities for experimental demonstration. By means of shades the room can be darkened when needed; the lecture-table is provided with a water-tank; and water, gas, and electricity from the dynamo are available; also current from a storage-battery of nine chloride accumulator-cells. There is a good double stereopticon with arc-lamps and mechanical dissolver; also a projecting lantern with J. B. Colt automatic feed arc-lamp, supplied with vertical attachment—an accessory to a lecture-room which is indispensable for the satisfactory presentation, to a large class, of a great variety of physical phenomena. The department is supplied with a polariscope, for the projection on the screen of the colors of crystalline plates, and with a collection of about thirty-five lantern-slides used in lectures. The outfit of apparatus for lecture experiments is large, and additions to it are constantly being made. Among the many pieces of apparatus may be named: a hydraulic press, a large rotary air-pump, rotating apparatus with accessories, a mandrel for high-speed rotation, gyroscope, balances, Hero's fountain, barometers, Holtz machine, eight-inch spark Ruhmkorff induction-coil, Geissler



CLASS-ROOM IN PHYSICS.

THE PHYSICS LABORATORY.

ELECTRICAL MEASUREMENTS—PHYSICS.

and Crookes tubes, several X-Ray tubes and flouroscope, a battery of Leyden jars, wireless telegraph apparatus, apparatus for the mutual action of currents, tangent galvanometers, resistance boxes, thermopile, two large parabolic reflectors, lenses, concave and convex mirrors, apparatus for demonstrating the laws of reflection and refraction of light, revolving mirror and manometric capsule, Koenig's interference apparatus for sound, organ-pipes, tuning-forks, siren, sonometer, spectrometer, diffraction-gratings, prisms, and many other pieces.

The equipment of the physical laboratory is very complete, additions having been made during the present year, both by construction in the shops of the Institution and by purchase. For laboratory work in electricity, the department is supplied with a sensitive Thompson mirror galvanometer, a Siemens mirror galvanometer, a mirror galvanometer by Queen & Co., a very sensitive D'Arsonval galvanometer, a Rowland's patent D'Arsonval galvanometer, a large tangent galvanometer, three small D'Arsonval galvanometers, a magnetometer, a 5-dial Wheatstone bridge, two slide-wire bridges, a Weston ammeter, ten resistance-boxes of various sizes, a copper voltameter, an earth-coil, a ballistic galvanometer, a Carhart-Clark standard cell, 1-M. F. standard condenser, and a Kempe discharge key for capacity tests.

The course in laboratory instruction includes experimental verification of the physical formulas and the determination of various physical constants, and is designed to give the student practice in the use of instruments of precision, and a certain amount of proficiency in physical manipulation. Among the experiments performed in this laboratory are the following: Determination of the acceleration of gravity by the physical pendulum, of the modulus of torsion of a steel wire, of the coefficient of friction between two bodies, of the relation between power and load on wheel and axle; verification of Boyle's Law; determination of radiation constant of a calorimeter, of the heat of fusion of ice, of the heat of vaporization of water, of the specific heat of a metal; verification of the laws of vibrating strings by sonometer; determination of index of refraction of glass by spectrometer, of distance between the lines of a diffraction grating; the measurement of resistance by Wheatstone bridge, of E. M. F. and resistance of batteries, of magnetic moment of magnet by magnetometer, of the horizontal intensity of the earth's field, of the capacity of condensers, of temperature coefficient of resistance of copper, of the magnetic properties of iron by ballistic galvanometer method.

Carefully written reports are required on all experiments performed. These reports are considered important features of the course, for in this way the student acquires clearness and facility of expression in the description of scientific investigations.

As a preparatory study, Physical Geography is required of the Apprentice class, second term.

The following courses are offered in this department:

1. GENERAL PHYSICS.

The aim of this course is to give a general survey of the field by means of experimental lectures and study of a textbook. Four hours per week during the first year, and three hours per week during the first term of the second year.

Required of all students except Textile Engineers.

Carhart, "University Physics," Parts I. and II.

2. GENERAL PHYSICS—Short Course.

This course covers the same ground as Course 1, except that less time is devoted to the subject. Three hours per week throughout the year.

Required of Textile Engineering Sophomores.

Carhart, "University Physics," Part I.

Carhart and Chute, "High School Physics."

3. PHYSICAL LABORATORY.

Three hours per week throughout one year, beginning with the second term.

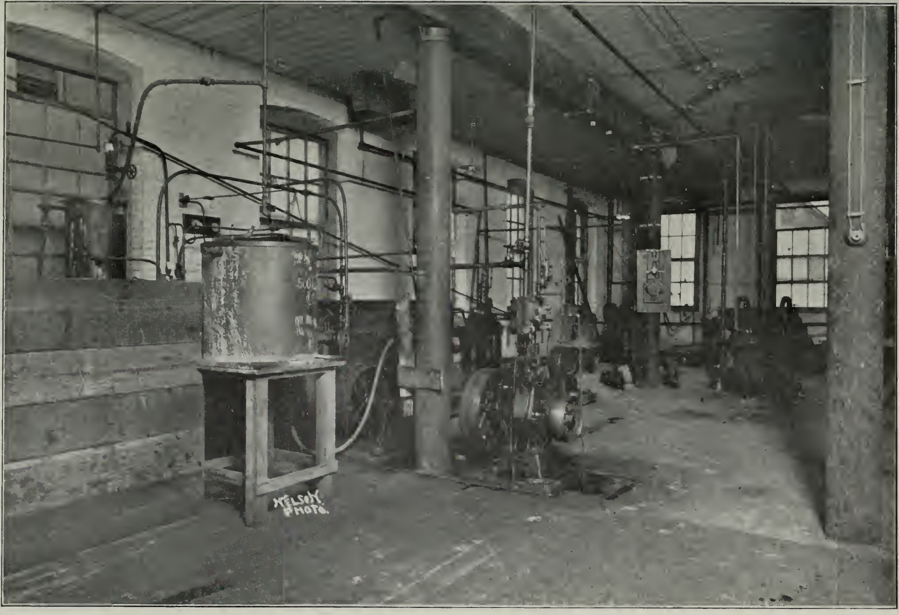
This course includes a systematic study of the Slide Rule and a thorough drill in its use.

Required of all students except Textile Engineers.

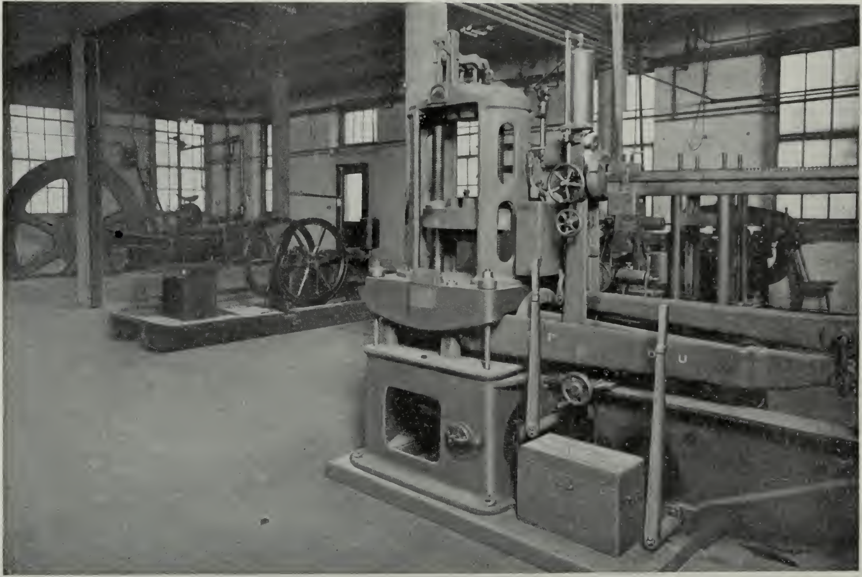
4. PHYSICAL LABORATORY—Electrical Measurements.

Advanced course for Electrical Engineers. Three hours per week during the first six weeks of the second term.

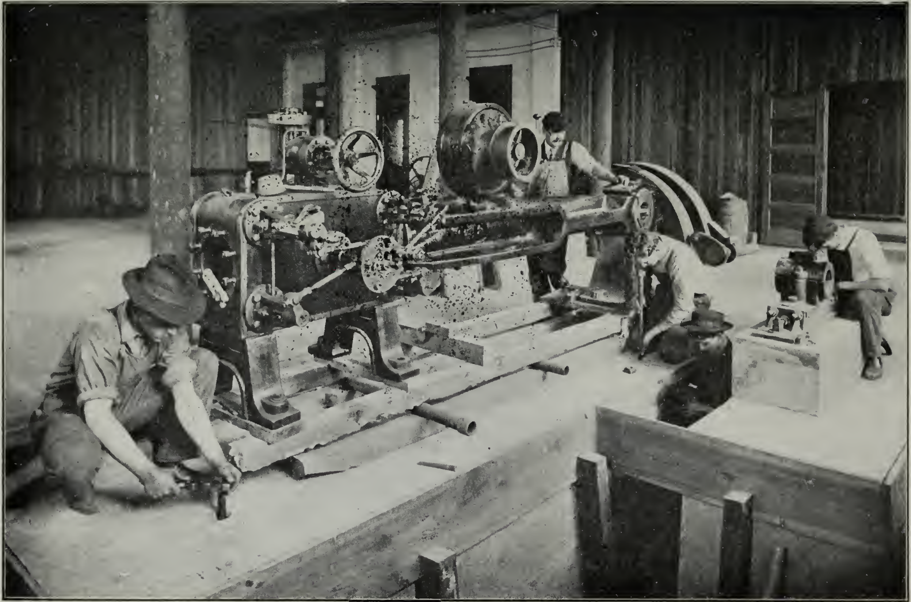
Required of Electrical Engineering Juniors.



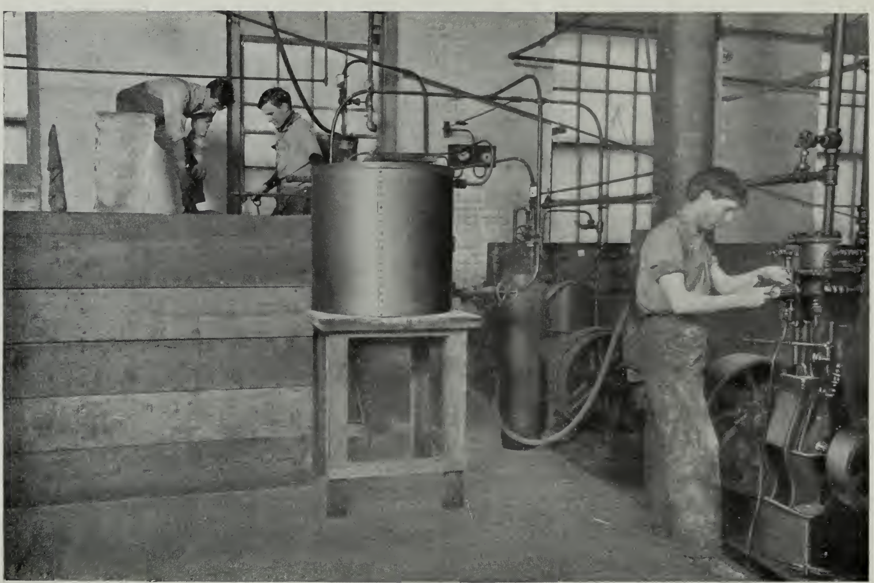
EXPERIMENTAL LABORATORY. NO. 1.



EXPERIMENTAL LABORATORY NO. 2.



INSTALLING NEW ENGINE—EXPERIMENTAL LABORATORY.



THE ICE PLANT.

DEPARTMENT OF EXPERIMENTAL ENGINEERING.

PROFESSORS NESBIT AND DAVENPORT.

The object of courses in this department is to enable the engineering student to recognize and apply such natural forces and materials as are adapted to his uses.

In order that he may be capable of intelligently and skillfully designing, constructing, and supervising all kinds of machinery, it is necessary that he should pursue a thorough and extensive course of training, both theoretical and practical. While theoretical courses are of primary importance in according mental discipline not to be derived from practical research, it will be seen that the latter is made to go hand-in-hand with the former, it being believed that from continual practical applications of theoretical conclusions a broader and more tangible conception of their truths may be derived. It is not, then, at the expense of the abstract mathematical law that time is given to show how it may be involved in the construction of the simplest machine, for not only is a new and suggestive meaning thereby given to the various contrivances of the mechanism, but an insight into the whole significance of the law itself is gained which can be acquired only by observing practical applications.

To explicate theoretical principles, however, is not the only value of the experimental work of the department. If the student desires to go from college to the manufacturing world, it is essential that he should be familiar with working-machines, methods of management, and as much of the every-day detail of engineering work as it is possible for him to acquire as a supplement to his higher training.

LABORATORY DEPARTMENT.

The Laboratory Equipment consists of the following machines and instruments:

One Olsen Testing Machine.
One 2,000-pound Transverse Testing Machine.
One Riehle Automatic Autographic Testing Machine.
One Olsen Torsion Testing Machine.
One Lubricant or Oil Testing Machine.
One Cement Testing Machine and complete outfit for cement.
One 6-H. P. Gas Engine.
Gas apparatus for gas analysis.
One 60-H. P. Corliss Engine.
One 500-pound ice-making plant.

Donated.

One set of Crosby Steam Indicators with springs complete.
One Water Meter.
One 9-H. P. Gasoline Engine.
One Blakeslee Steam Pump.
One 2½-inch Steam Separator.
One 3½-inch Steam Separator.
One 6-inch Steam Separator.
One 200-pound Steam Gauge.
One 200-pound Water Gauge.
One Throttling Calorimeter.
One Pulsometer Steam Pump.
One Pelton Motor.
Thermometers.
One Pump Governor.
One 6-H. P. Automatic Steam-Engine.
One Model Hydraulic Press.
One Detroit Steam Separator.

- One Crosby Gauge-Tester.
- One 200-pound Steam Gauge.
- One 300-pound Water-Pressure Gauge.
- One Vacuum Gauge.
- One Steam Pump.
- One Pyrometer.
- One Hydraulic Ram.
- One Baum Steam and Oil Separator.
- Seven Steam Gauges.
- Six Water Gauges.
- Six Vacuum Gauges.
- Three Speed Indicators.
- One Gas Meter.
- One Water Meter.
- One 4-inch Centrifugal Pump.
- Two Micrometer Calipers.
- Three Planimeters.
- Two Injectors.
- One 3½-inch Exhaust Head.
- Numerous Pulleys.

Laboratory Experiments.

Strength of Materials; Tensile and Tranverse; Compression and Torsion; Brick; Stone; Cement; Flexure.

Lubricants: Coefficient of Friction; Viscosity; Chill-test; Flash-test; Durability, etc.

Calibration: Indicator-springs and Steam-gauges; Indicator Drum-spring; Water-meters; Gas-meters; Planimeters.

Steam-Engine: Indicator-practice; Valve-setting; Clearance; Calorimetry; Barrel and Throttling; Condenser Steam and Oil Separators.

Efficiency Tests: Steam-boiler; Pelton Water-wheel; Steam-pump; Steam-engine; Gas-engine; Pulsometer; Injector; Centrifugal Pump; Hydraulic Ram; Air Compresser; Ice Plant; Gasoline-engine; Steam-engine; Hinis Analysis, etc.

DEPARTMENT OF MODERN LANGUAGES.

The study of modern languages at the School of Technology has a twofold aim. Primarily, its purpose is to enable students to translate into their own tongue with ease and precision the literature which is constantly appearing in these languages on their professional subjects. Secondarily its aim is to create in the student a living interest in the literature of these languages—an interest so strong that he will continue to read the great literary masterpieces found in them.

The courses in French and German extend through two years and candidates for all degrees, except that of Bachelor of Science of Textile Engineering, are required to take a two-year course in one of these languages.

The fall term of the first year is devoted to a thorough grounding in the inflections of the languages. In the winter and spring terms, the forms already learned are fixed by translating and parsing easy prose selections. Correct pronunciation is aimed at from the beginning—a correctness gained not by rules, but from the teacher. The ear is trained by dictation, and, as far as time will permit, by conversational exercises.

During the second year, works of greater difficulty will be translated, the syntax of the language will be studied more thoroughly, and the sentence-structure will be taught by practical work both in written and oral exercises. In both years a wider field is covered by reading one part of the work assigned carefully and slowly, another part rapidly. Greater facility in handling the languages is also gained by frequent sight-translations.

In order that students may learn to handle the topics discussed in the current German and French technical magazines, articles from these are assigned to members of the Senior class, and written translations are required to be made in good English, at the same time faithfully reproducing the originals.

German.

Junior Class.

Three hours weekly throughout the session. *Vos, Essentials of German;* Carruth, *German Reading;* Gore, *German Science Reader;* Moore, *History of German Literature;* Storm, *Immensee;* Von Wildenbruch, *Das edle Blut.* L

Senior Class.

Three hours weekly throughout the session. Grammar reviewed in connection with reading. Weekly exercises on German Syntax. Jagemann, *German Syntax;* Harris, *German Composition;* Moore, *History of German Literature.*

Class-reading taken from the following: Freytag, *Aus dem Staat Friedrichs des Groszen;* Heine, *Harzreise;* Muller, *Die Elektrischen Maschinen;* Kayser, *Die Elektronentheorie;* Mach, *Populäer-wissenschaftliche Vorlesungen;* Wait, *German Science Reader.*

Sight-reading; Mosher, *Willkommen in Deutschland;* Wilhelmi, *Einer musz heiraten;* Schiller, *Das Lied von der Glocke;* Goethe, *Sesenheim.*

Private Reading in English, translations of; Goethe *Faust, Part I, Hermann and Dorothea;* Lessing, *Minna von Barnhelm;* Schiller, *William Tell.*

French.

Junior Class.

Three hours weekly throughout the session. Fraser & Squair, *French Grammar;* Kuhn, *French Reading;* Dike, *Scientific French Reader;* Kastner & Atkins, *Short History of French Literature;* Sight-reading: Halevy, *L'Abbe Constantin;* Bruno, *Tour de la France par deux enfants.*

Senior Class.

Three hours weekly throughout the session. Fraser & Squair, French Grammar completed; Weekly exercises on French syntax; Sanderson, *French Composition;* Kastner & Atkins, *Short History of French Literature;* Dike, *Scientific French Reader.*

Class-reading taken from the following: Daudet, *Morceaux Choisis,* (Ed by Freeborn); *Mérimée, Colomba;* Musset, *Trois Comedies;* Hugo, *La Chute;* Moliere, *Le Bourgeois Gentilhomme;* Feuillet, *Le Roman d'un jeune Homme pauvre.*

DEPARTMENT OF DRAWING.

PROFFESSORS COON, LOWNDES, AND JACKSON, L.R.

In the Mechanical, Electrical, and Civil Engineering courses, drawing is pursued for the entire four years; but on account of the widely different nature of the graduate work in these departments, the last, or Senior, year's work is done under the direct supervision of the professor of engineering in that particular department.

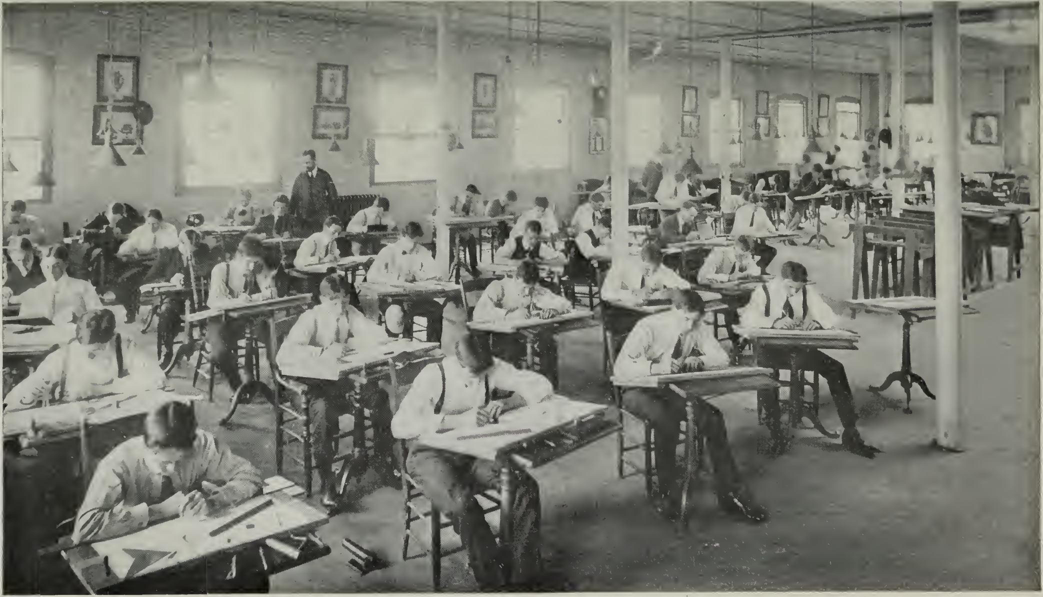
In the Textile and Chemical courses, all the drawing is done in this department.

The work in the drawing department, being necessarily subordinate to the graduate work in the different engineering courses, is outlined with special reference to the course the individual student intends to pursue.

Free-hand drawing is the same in all courses, and is pursued for four hours per week for the first twelve weeks of the Freshman year.

At the close of the Christmas holidays, Freshman year, instrumental geometric construction is taken up; this, in turn, is followed by a very complete course in orthographic, isometric, and pseudo-perspective drawing; together with the study of descriptive geometry, and a thorough course in parallel drawing. This work is continued until the end of the year.

At the beginning of the Sophomore year, the subject of machine drawing is taken up, and is continued for the remainder of the year, the nature of the work being determined by the course each student intends to pursue. In the Mechanical and Electrical courses the student is taught the correct methods of making working drawings of machines and machine parts; both assembly and detail; all dimensions are given and carefully



THE DRAWING-ROOM FOR FRESHMAN, SOPHOMORE AND JUNIOR CLASSES.

THE
JOHN CRERAR
LIBRARY.

checked over so that the student is made to appreciate the methods in common practice in the best manufacturing shops.

In the Textile, and Chemical courses the drawings are made of apparatus pertaining as much as possible to these respective industries; so that the student not only learns to draw, but has an opportunity to become familiar with machinery that is of special interest to him in his chosen profession. In the Civil course the drawing consists of mining machinery, masonry, pumps and hydraulic apparatus; together with some true perspective as well as the conventional pseudo perspectives.

In the Junior year, for the first term, the work is a continuation of that begun in the Sophomore year, leading up to elementary machine design; a portion of the time being devoted to the construction of spur, worm, and bevel gears, by cycloidal and involute systems, as well as by circular arc approximations, and by the use of the odontographs; and also to the laying out of plane and helical cam curves, valve diagrams, velocity and acceleration curves.

In connection with the drawing and discussion of gears, cams, diagrams, etc., there is given a course of recitations in Mechanism and Elementary Machine Design. Four hours per week for the first half year are devoted to this class-room work, while four hours per week for the full year are devoted to drawing-room practice.

The second half of the Junior year is devoted in the Mechanical and Electrical courses, to elementary machine design, which is continued and completed in the Senior year work in the individual departments; while in the Textile course special attention is given to drawing textile machines and motions. The Chemical course is directed to the reproducing of technical charts and chemical manufacturing apparatus.

During the Sophomore and Junior years all students are required to make tracings both from inked and penciled drawings, and are taught to make blue-prints, brown prints, etc.

Through the entire course special attention is given to lettering and use of conventions as generally used in up-to-date drawing-offices of manufacturing plants.

No attempt is made towards producing artistic work, and at no time is accuracy sacrificed for appearance, though neatness is required.

The instruction in this department is largely individual, the instructors constantly going from desk to desk, discussing with the student the work in hand.

GEOLOGY AND METALLURGY.

JUNIOR PROFFESSOR KELL.

I. MINERALOGY.—Required in Chemical Course. The four branches in this course are:

(a). Crystallography. In this branch only such parts as are essential to the proper understanding of minerals as seen in the hand specimen are taken up. Instruction is given by lecture, text-book and laboratory practice. The student is required to study the wooden models of perfect crystals and then apply this knowledge to natural crystals.

Text-Book.—Patton's "Lecture Notes on Crystallography."

(b). Blowpiping. The student is supposed to be familiar with the mechanical use of the blow-pipe from his work in the Chemical Laboratory so that only a few tests for common minerals are given here.

(c). Determinative Mineralogy. The work of this course is to so drill the student in the material presented that he may determine the more common mineral species by means of their crystal forms, a few simple blow-pipe reactions and in the main, by their physical properties. Instruction is given by lectures, text-book and laboratory practice in the well-selected and growing museum of the School, together with the State Collection in the Capitol Building.

Text-Book.—Butler's "Notes on Mineralogy and Lithology."

(d). Lithology. This course is conducted in a manner similar to that of Determinative Mineralogy and the same stress is laid on the determination of hand specimens without the use of the microscope. Lectures covering the classification, origin and mode of occurrence are given, and laboratory practice in the determination of the various species is required.

Text-Book.—Butler's "Notes on Mineralogy and Lithology."
Time.—1st Term Sophomore.
Recitations, 3 hours; Laboratory, 6 hours per week.

II. GENERAL GEOLOGY.—Required in Chemical Course. This course consists of three sections: Dynamical Geology, Structural Geology and Historical Geology. Under the first section, the student studies the forces which are now at work changing the earth's surface such as the atmospheric, aqueous and igneous; under Structural Geology, a study of earth materials is made and attention given to noting method of formation from the present structure; while the last section treats of the earth's life and history as revealed in the sequence of rock beds or chapters. This course is supplemented as far as possible by field work, and special features in the Southern Field are treated at length.

Text-Book.—LeConte's "Geology."
Time.—2nd Term Sophomore.
Four hours per week.

III. FUELS, REFRACTORY MATERIALS, IRON AND STEEL. (a) Fuels. The work in this section consists of a brief study of the various kinds and uses of Fuels together with their metallurgical applications.

(b). Refractory Materials. The various types of crucibles, casting sands, mortars, and different basic and acid linings for furnaces are treated under this head.

(c). Iron and Steel. No attempt is made to treat this section in detail, but modern steel practice is studied, with special stress being laid on the blast furnace and the Bessemer, Open-Hearth and rare metal steels. Instruction is given by lecture and reports on gas manufacture, and the Open Hearth Steel manufacture are required after students have visited local industries.

Time.—1st Term Sophomore.
Two hours per week.
Required in all courses except the Textile Engineering.

IV. METALLURGY.—Non-Ferrous Metals. In this course, the metallurgy of gold, silver, copper and lead is taken up, the entire time being put on the modern practice in this country.

No attempt is made to grasp the minutæ of the many processes, but each is studied as closely as is required to bring the student to the position where detailed work can be carried on at his pleasure. Instruction is given by lecture and recitation.

Time.—2nd Term Sophomore.

Three hours per week.

Required in Chemical Course.

V. Assaying—Required in Chemical Course. This course to be of value must of necessity, as all others, be practical according to modern methods and to this end the following course is given: Study of slags; fluxing of a limestone ore and of a siliceous ore; the assay of lead ores, both sulphide and oxide, and the various methods of assay of gold and silver ores. Accuracy with speed is the aim in this work.

Text-Book.—Fulton's "Manual of Assaying."

Time.—2nd Term Senior Year.

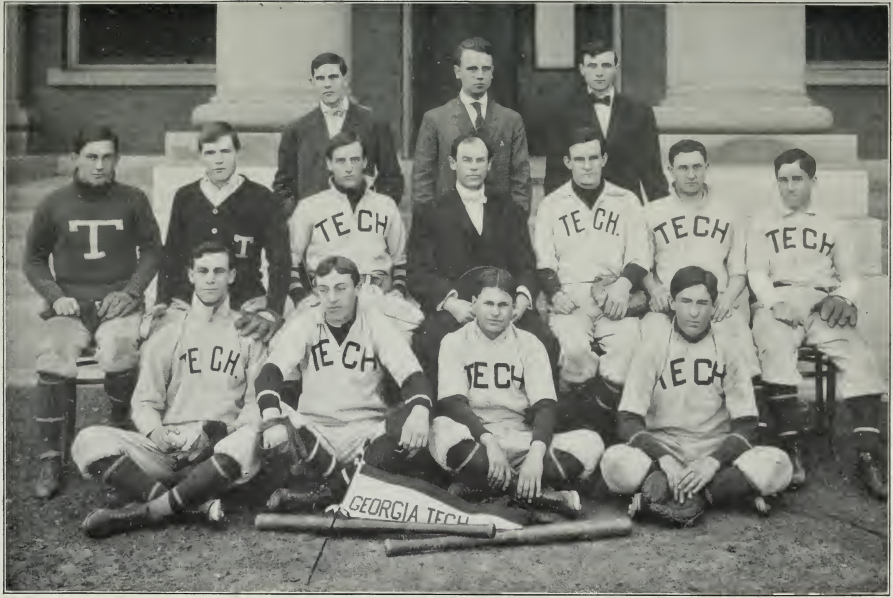
Four hours per week.

DEPARTMENT OF PHYSICAL CULTURE.

The work in this department has broadened, year by year, until at the present time it has for its aim, not only the development of a strong, healthy body for each individual student; but it also recognizes the fact that the success of each graduate will depend largely upon his being able to procure efficient help in the work shop, mill or construction camp; and, after procuring such help, the necessity of keeping it efficient. Efficiency—i. e. the power of accomplishing the maximum amount of work with the minimum expenditure of energy—is really the true test of the successful man. The question to be answered by the Superintendent of a manufacturing plant is not only how shall I preserve personal health, but also how can I keep my employees in a condition which will enable them to do good work, *every* day in the year?

The question of the health of his working community is one which the Superintendent cannot afford to ignore.

The sanitary regulations concerning ventilation, drainage, water supply, food supply, disposal of sewerage and offals; the



1907 BASEBALL TEAM.

ONE OF THE FOOTBALL GAMES, SEASON 1907—SECTION OF THE GRAND-STAND.

control of contagious diseases and the prevention of diseases are all vital questions and bear directly upon the efficiency of employees. The sickness of one child may affect the producing capacity and quality of the work of half a dozen members of a family. This being the case, the loss entailed by an epidemic is self-evident. Not only should the Superintendent know how to keep his operatives healthy in body, but their contentment is worth considering—for with health and contentment secured there is eliminated, to a great extent, the factors which cause operatives to move from one factory to another.

To meet this need there will be given to the four higher classes a course of lectures, which will lead by progressive steps from personal hygeine to a course in Mill sanitation.

Special stress will be placed upon making the course explicit, concise and practical; and while it will be thoroughly scientific and modern, technicalities will be avoided as much as possible.

Gymnastics.

Recognizing that the student, entering the Freshman class, is at the period where he is passing from boyhood to manhood and that his future success in life is largely dependent upon a strong, healthy body, the School has made a graded course in Gymnastics compulsory for all members of the Freshman class.

Each member of this class is required to report to the Director, who will give him a thorough examination and prescribe the exercise he is able to take.

The Gymnasium is a large, airy hall, 40x70 feet, with high ceiling permitting the use of flying-rings and other swinging apparatus. New apparatus is constantly being added, thus keeping abreast of the times.

The outfit for physical examination is complete—new apparatus being added as it is invented.

Each student in the Freshman class is required to supply himself with the regulation gymnasium *uniform,* consisting of *plain,* navy-blue, quarter-sleeve shirt; navy-blue knee-tights; supporter; and white shoes, at a total cost of about two dollars.

N. B.—Special attention is called to the fact that the gymnasium suits *must be uniform.* No striped shirts or tights will be allowed in class—and the shoes must be *clean* and *white.*

Students are advised not to purchase the uniform until they come to Atlanta, thus avoiding mistakes. An examination in light and heavy gymnastics is given at the beginning of the fall term, and each man is advanced as fast as he improves.

Course in Graded Gymnastics.

First—Work on pulley-weights and other light apparatus to develop the muscular system, heart, and lungs.

Second—Light combinations; e. g., Indian-clubs, dumb-bells, etc., to develop grace, co-ordination, and self-control.

Third—Work on the heavy apparatus, to develop strength, physical judgment, muscular control, agility, and self-control.

Fourth—Competitive exercises, to develop judgment, coolness, and self-confidence.

INDIVIDUAL WORK.

All students are encouraged to do individual work, and any student of the School can procure a thorough physical examination by making special arrangements with the Director.

ADVANCED GYMNASTICS.

Students showing special ability or aptitude for gymnastics are encouraged and given individual instruction.

BATHS AND HEATING.

A new dressing-room has been added with new shower baths. Special attention is paid to heating Gymnasium, bath-rooms, and dressing-room during cold weather.

COLLEGE ATHLETICS.

The true aim of college athletics is not to develop a few men at the expense of the rest, but to take all men in college and encourage them to participate in the various sports that all may share in the benefits. Not only do athletics foster physical strength and skill, but when properly conducted, inculcate a spirit of honor among those who participate. "A fair field and no favors" is the true spirit of college sport at the present day.

College sports, while furnishing profitable employment to the men during their idle moments, have been no small factor in improving the deportment of the student body as a whole.

All forms of inter-collegiate games, such as football, baseball, tennis, track and fiield sports, within proper bounds, are encouraged by the Faculty.

The campus in front of the School has been laid out with running-track, jumping and pole-vaulting paths, circles for shot and hammer, etc.

BASEBALL AND FOOTBALL.

Another large field, toward the east, is devoted to baseball and football, and has commodious grand-stands and bleachers, and dressing-rooms, fitted with lockers, for the players.

These sports are in charge of a most competent coach.

TENNIS.

The Athletic Association has assumed control of Tennis, and an annual appropriation will be made to keep the courts in order and add new ones as rapidly as possible.

All athletics are under control of the Faculty.

ARCHITECTURE.

It is the intention of the Board of Trustees to institute a Department of Architecture, beginning September 30, 1908. Competent instructors will be secured, and the Department will be conducted along the most modern and progressive lines. Atlanta, as the center of large building operations, offers unusual advantages to the prospective architect; and every effort will be exerted to make the course as complete and practical as possible.

COURSE OF STUDY.

(Numbers following subjects indicate hours per week.)

Apprentice Year.

(Same for all courses.)

First Term.

Mathematics (5).—Elements of Algebra.

Mathematics (5).—Plane Geometry.

English (5).—Grammar; Spelling; Burke's Oration on Conciliation with America; Declamation.

General History (3).

Wood Shop (4).

Second Term.

Mathematics (5).—Elements of Algebra.

Mathematics (5).—Plane Geometry.

English (5).—Grammar; Spelling; Milton's Minor Poems; Julius Caesar, Macaulay's Essay on Addison; Macaulay's Essay on Johnson; Declamation.

Physical Geography (3).

Wood Shop (4).

Freshman Year.

(Same for all courses except T. E.)

First Term.

Mathematics (5).—Algebra (3); Solid Geometry (2).

English (4).—Rhetoric; Spelling; Readings; Essays.

Chemistry (5).—Inorganic Chemistry (3); Laboratory (2).

Drawing (4).—Free-hand; Geometric; Linear.

Shop-Work (12).—Wood Shop (8); Smith Shop or Foundry (4).

Second Term.

Mathematics (5).—Plane Trigonometry (3); Analytic Geometry (2).

English (4).—Rhetoric; Spelling; Readings; Essays.

Chemistry (5).—Inorganic Chemistry (3); Laboratory (2).

Drawing (6).—Instrumental Linear; Descriptive Geometry Drawing.—Drawing 3 hours, Desc Geom. Rec. 3 hours.

Shop-Work (8).—Wood Shop (4); Smith Shop or Foundry (4).

Sophomore Year.

M. E., E. E., and C. E.

First Term.

Mathematics (5).—Analytic Geometry (3); Calculus (2).

English (3).—American Literature; Readings; Essays.

Chemistry (4).—Qualitative Laboratory.

Drawing (4).—Machine Drawing to Scale.

Physics (4).—Mechanics and Sound.

Metallurgy (2).—Refractory Materials; Fuels; Iron and Steel.

Shop-Work (8).

Second Term.

Mathematics (5).—Calculus.

English (3)—Economics; Reports; Essays.

Chemistry (4)—Qualitative Laboratory (4).

Drawing (4).—Machine Drawing to Scale.

Physics (7)—Heat and Electricity (4); Laboratory, Mechanics; Sound and Light. (3).

Surveying (4).—Use of Level, Compass and Transit.

Shop-Work (8).

MECHANICAL ENGINEERING.

Junior Year.

First Term.

Mathematics (3).—Differential Equation, Theory of Equations.

English (3).—English Literature; Readings; Essays.

Drawing (4).—Machine Drawing to Scale.

Engineering (4).—Kinematics and Mechanism.

Physics (6).—Electricity and Magnetism (3); Laboratory; Heat; Light; Electricity (3).

French or German (3).—Elementary.

Machine Shop-Work (4).

Second Term.

Analytic Mechanics (3).

English (3).—English Literature; Readings; Essays.

Drawing (4).—Machine-Design.

Mechanical Engineering (3).—Mechanics of Materials.

Civil Engineering (3).—Hydraulics.

Experimental Engineering (3).—Work in Testing Materials.

French or German (3).—Intermediate.

Machine Shop-Work (4).

Senior Year.

First Term.

Drawing (4).—Special Problems in Designing Machinery.

Mechanical Engineering (11).—Analytic Mechanics (4); Steam-Engine and other Prime Movers (4); Mechanics of Materials (3).

Experimental Engineering (3).—Work in Testing Materials.

Electrical Engineering (5).—Electric Power Distribution.

French or German (3).—Advanced.

Machine Shop-Work (4).

Second Term.

Drawing (8).—Graduate Work in Machine-Design.

Mechanical Engineering (11).—Machine-Design, Text (3);

Gas and Hydraulic Motors (3); Special Engineering Problems (3); Graphical Statics (2).

Experimental Engineering (3).—Tests of Steam and Gas-Engines.

Thesis-Work (4).

French or German (3).—Advanced.

Machine Shop-Work (4).

ELECTRICAL ENGINEERING.

Junior Year.

First Term.

Mathematics (3).—Vector Analysis, Differential Equation, Theory of Equations.

English (3).—English Literature; Readings; Essays.

Physics (6).—Electricity and Magnetism (3); Laboratory, Heat; Light; Electricity (3).

Engineering (4).—Kinematics and Mechanism.

Drawing (4).—Detail and Assembly Drawing; Gear Construction.

French or German (3).—Elementary.

Second Term.

Analytic Mechanics (5).

Experimental Engineering (2).—Mechanics of Materials.

English (3).—English Literature; Readings; Essays.

Electrical Engineering (3).—Dynamo Electric Machinery.

Drawing (4).—Motion Diagrams; Machine Drawing.

French or German (3).—Intermediate.

Shop-Work (4).—Machine Shop.

Senior Year.

First Term.

Electrical Engineering (16).—Telephone and Telegraph (2); Dynamo Electric Machinery (4); Electrical Laboratory (4); Electric Lighting (2); Electric Design (4); Current Engineering (1).

Experimental Engineering (6).—Steam-Engines and Boilers (2); Materials, Laboratory (3).

French or German (3).—Advanced.

Second Term.

Electrical Engineering (17).—Electrical Design (4); Electric-Power Plants (5); Electrical Laboratory (4); Current Engineering (1); Electric Railways (2).

Experimental Engineering.—(a) Gas Engines (2); (b) Laboratory (3).

Mechanics (3).—Hydraulics.

Thesis.

French or German (3.).—Advanced.

CIVIL ENGINEERING.

Junior Year.

First Term.

Mathematics (3).—Spherical Trigonometry, Theory of Equations, Differential Equations.

English (3).—English Literature; Reading; Essays.

Engineering (7).—Field Engineering (4); Railroad Surveying; Topographical Surveying (3).

Physics (6).—Electricity and Magnetism (3); Laboratory, Heat and Light (3).

Shop-Work (4).

French or German (3).—Elementary.

Second Term.

Mechanics (3)—Analytic Mechanics.

English (3).—English Literature; Readings; Essays.

Engineering (6).—Mechanics of Materials (3); Hydraulics (3).

Drawing (3).—Shades, Shadows and Perspective.

Experimental Engineering (3).—Work in Testing Materials.

French or German (3).—Intermediate.

Senior Year.

First Term.

Mechanical Engineering (3).—Mechanics of Materials.

Civil Engineering (11).—Masonry Structures (3); Framed Structures (3); Hydraulic Machinery (3); Topographical and Geodetic Surveying (2).

Experimental Engineering (9).—Steam-Engines (3); Steam-Engine Laboratory (3); Materials, Laboratory (3).

Drawing (4).—Topographical and Geodetic Mapping.

French or German (3).—Advanced.

Second Term.

Civil Engineering (10).—Framed Structures (5); Municipal Engineering (5).

Electrical Engineering (5).—Electric Power Distribution (2); Electric Laboratory (3).

Experimental Engineering (3).—Hydraulic and Cement Laboratory.

Drawing (4).—Designs of Structures and Municipal Improvements.

French or German (3).—Advanced.

Thesis.

TEXTILE ENGINEERING.

Freshman Year.

First Term.

Mathematics (5).—Algebra (3); Solid Geometry (2).

Chemistry (5).—Inorganic Chemistry (3); Laboratory (2).

English (4).—Rhetoric; Spelling; Readings; Essays.

Drawing (4).—Free-Hand; Geometry Linear.

Mill (8).—Carding (4); Weaving (4).

Shop-Work (4).—Wood-Shop.

Second Term.

Mathematics (5).—Plane Trigonometry (3); Analytic Geometry (2).

Chemistry (5).—Inorganic Chemistry (3); Laboratory (2).

English (4).—Rhetoric; Spelling; Readings; Essays.

Drawing (8).—Instrumental Linear; Geometric, Cabinet and Orthographic Projections.

Mill (8).—Carding (4); Weaving (4).

Shop-Work (4).—Blacksmith Shop.

Sophomore Year.

First Term.

Mathematics (5).—Analytic Geometry (3); Calculus (2).

Chemistry (4).—Qualitative Laboratory.

English (3).—American Literature; Readings; Essays.

Physics (3).—Mechanics.

Drawing (4).—Machine Drawing to Scale.

Designing (4).—Fabric Structure and Design.

Mill (8).—Carding and Spinning (4); Weaving (4).

Second Term.

Mathematics (5).—Calculus.

Chemistry (4).—Qualitative Laboratory.

English (3).—Economics; Readings, Essays.

Physics (3).—Electricity and Magnetism.

Drawing (4).—Machine Drawing to Scale.

Designing (4).—Fabric Structure and Design.

Mill (8).—Weaving (4); Carding (4).

Junior Year.

First Term.

English (3).—English Literature; Readings, Essays.

Mechanism (4).

Drawing (4).—Detail and Assembly Drawing Textile Machines to Scale.

Designing (8)—Fabric Structure and Design.

Carding (3).—Recitations and Lectures.

Weaving (2).—Recitations and Lectures.

Mill (8).—Carding and Spinning (4); Weaving (4).

Shop-Work (4).—Machine Shop.

Second Term

English (3).—English Literature; Readings; Essays.
Mechanics (4).
Drawing (4).—Detail and Assembly Drawings.
Designing (4).—Fabric Analysis.
Carding (3).—Recitations and Lectures.
Weaving (2).—Recitations and Lectures.
Mill (8).—Carding and Spinning (4); Hand Weaving (4).
Shop-Work (4).—Machine Shop.

Senior Year.

First Term.

Experimental Engineering (6).—Mechanics of Materials (3); Laboratory (3).

Designing (8).—Jacquard Designing.
Dyeing (6).—Lectures (2); Dyeing Laboratory (4).
Carding (3).—Recitations.
Weaving (2).—Recitations.
Mill (8).—Carding and Spinning (4); Weaving (4).

Second Term.

Experimental Engineering (6).—Steam-Engine (3); Power Laboratory (3).

Superintendence (2).—Lectures.
Designing (4).—Jacquard Designing and Analysis.
Dyeing (6).—Lectures (2); Dyeing Laboratory (4).

Electrical Engineering (5).—Electric Power Distribution (2); Electrical Laboratory (3).

Carding (3).—Recitations.
Mill (8).—Carding and Spinning (4); Weaving (4).
Thesis.

ENGINEERING CHEMISTRY.

Sophomore Year.

First Term.

Mathematics (5).—Analytic Geometry (3); Calculus (2).
English (3).—American Literature; Readings; Essays.
Physics (4).—Mechanics and Sound.

Metallurgy (2).—Refractory Materials; Fuels; Iron and Steel.
Drawing (4).—Machine Drawing.
Chemical Laboratory (12).—Qualitative Analysis.

Second Term.

Mathematics (5).—Calculus.
English (3).—American Literature; Readings; Essays.
Physics (4).—Light, Heat, and Electricity.
Physics Laboratory (3).—Mechanics, Sound, and Light.
Drawing (4).—Drawing Technological Charts.
Chemical Laboratory (12).—Qualitative Analysis (4); Quantitative Analysis (8).

Junior Year.

First Term.

English (3).—English Literature; Readings; Essays.
German (3).—Elementary.
Physics (3).—Electricity and Magnetism.
Physics Laboratory (3).—Heat, Light, and Electricity.
Chemical Laboratory (16).—Organic Laboratory (4); Quantitative Analysis (12).
Organic Chemistry (3).

Second Term.

English (3).—English Literature; Readings; Essays.
German (3).—Intermediate.
Analytical Mechanics (4).
Organic Chemistry (3).
Organic Laboratory (4).
Quantitative Analysis (16).

Senior Year.

First Term.

German (3).—Advanced.
Mechanics of Materials (3).
Advanced Inorganic Chemistry (5).

Industrial Chemistry (3).

Engineering Laboratory (6).—Strength of Materials and Steam-Engine (3); Gas and Oil Analysis (3).

Quantitative Analysis (12).

Second Term.

German (3).—Advanced.

Engineering (6).—Steam Engine and Boilers (3); Laboratory (3).

Electric Power and Transmission (2).

Physical Chemistry (5).

Advanced Experimental Chemistry (3).—Based upon Volhard & Zimmerman's text; Laboratory Work and Recitations.

Electrical Laboratory (3).

Quantitative Analysis and Thesis (12).

CHEMICAL COURSE.

Sophomore Year.

First Term.

English (3).—American Literature; Readings; Essays.

Physics (4).—Mechanics and Sound.

Crystallography, Mineralogy and Lithology (3).

Metallurgy (2).—Refractory Materials; Iron and Steel.

Drawing (4).—Machine Drawing to Scale.

Qualitative Analysis (12).

Mineralogy and Crystallography.—Laboratory (6).

Second Term.

English (3).—Political Economy; Readings; Essays.

Physics (4).—Light, Heat and Electricity.

Metallurgy (3).—Metals other than Iron and Steel.

Geology (4).

Physics Laboratory (3).—Mechanics, Sound and Light.

Qualitative Analysis (4).

Quantitative Analysis (8).

Junior Year.

First Term.

English (3).—English Literature; Readings; Essays.
German (3).—Elementary.
Physics (3).—Electricity and Magnetism.
Organic Chemistry (3).
Physics Laboratory (3).—Heat, Light and Electricity.
Organic Laboratory (4).
Quantitative Analysis (12).

Second Term.

English (3).—English Literature; Essays; Readings.
German (3).—Elementary.
Organic Chemistry (3).
History of Chemistry (3).
Organic Laboratory (4).
Quantitative Analysis (16).

Senior Year.

First Term.

Advanced Inorganic Chemistry (5).
German (3).—Advanced.
French (with Junior Class) (3).—Elementary.
Industrial Chemistry (3).
Quantitative Analysis (20).

Second Term.

Physical Chemistry (5).
German (3).—Advanced.
French (3).—Intermediate.
Advanced Experimental Chemistry (3).
Assaying (4).
Quantitative Analysis and Thesis (16).

SPECIAL TEXTILE COURSE.

First Year.

First Term.

Chemistry (5).—Inorganic Chemistry (3); Laboratory (2).
Carding (3).—Recitations.
Weaving (2).—Recitations.
Mill (16).—Carding and Spinning (8); Weaving (8).
Shop (8).—Wood-shop.

Second Term.

Chemistry (5).—Inorganic Chemistry (3); Laboratory (2).
Designing (4).—Fabric Structure and Design.
Carding (3).—Recitations and Lectures.
Weaving (2).—Recitations and Lectures.
Mill (16).—Carding and Spinning (8); Weaving (8).
Shop (8).—Smith-shop.

Second Year.

First Term.

Dyeing (6).—Lectures (2); Laboratory (4).
Designing (12).—Dobby (8); Jacquard (4).
Carding (3).—Recitations.
Weaving (2).—Recitations.
Mill (16).—Carding and Spinning (4); Weaving (8).
Shop (4).—Machine-shop.

Second Term.

Dyeing (6).—Lectures (2); Laboratory (4).
Designing (12).—Dobby (8); Jacquard (4).
Carding (3).—Recitations.
Weaving (2).—Recitations.
Mill (6).—Carding and Spinning (4); Weaving (8).
Shop-Work (4).—Machine-shop.

ARTISAN COURSE.

First Year.

First Term.

Mathematics (5).—Solid Geometry (2); Algebra (3).
English (4).—Rhetoric; Spelling; Readings; Essays.
Physics (3).—Mechanics.
Drawing (10).
Shop (20.)

Second Term.

Mathematics (5).—Plane Trigonometry (3); Analytic Geometry (2).
English (4).—Rhetoric; Spelling; Readings; Essays.
Physics (3).—Sound; Light; Heat; Electricity.
Drawing (10).
Shop (20).

Second Year.

First Term.

Surveying (4).
Mechanism (4).
Mechanics of Materials (3).
Drawing (12).
Physics Laboratory (3).
Shops (12).

Second Term.

Steam-Engine (3).
Electric Power Transmission (5).
Testing Laboratory (3).
Drawing (12).
Shop (12).

A simple Thesis is required at the end of the Second Term.

Appropriations.

The School receives $60,000 per annum from the State, and $2,500 per annum from the city of Atlanta. During the session of the Legislature in 1907, the maintenance fund was increased from $55,000 to $60,000.

Buildings.

The School occupies a beautiful site in a campus of nearly sixteen acres, lying at the junction of North Avenue and Cherry Street, easily accessible by street-car lines on Marietta, West Peachtree, and Luckie Streets. The Academic building is a splendid edifice of brick, trimmed with granite and terracotta and roofed with slate. It has one hundred and thirty feet front, is one hundred and twenty deep, and four stories above basement story. It contains ample accommodations in halls, offices, apparatus-rooms, recitation and lecture-rooms, library, and chapel.

The workshops are also of brick, the main shop building being two hundred and fifty feet long by eighty wide, and two stories, with large basements. It is admirably designed with reference to its use, and affords ample space for the machine and wood-shops and the foundry. In the basement are complete equipment of lavatories, and lockers for students' clothes. The smith-shop, boilers, and cupolas for foundry are located outside the main-shop building, thus reducing to a minimum all chances of another disaster by fire.

During 1898 a new smith-shop was built. It contains 21 forges, a vise-room, and office, and is well lighted by large windows, which extend entirely around the building.

The new Textile building was completed in 1898, and is 150 by 70 feet, with three floors for the accommodation of machinery, class-rooms, etc. It was designed by Lockwood, Greene & Co., of Boston, and fulfills every requirement of a modern cotton-mill.

The Dormitory buildings consist of the Janie Austell Swann Dormitories, containing fifty rooms for students; the Knowles Dormitory, containing thirty-six rooms for students, gymnasium, shower-baths, and dining-room; and two smaller dormitories of eight rooms each.

THE NEW BUILDINGS.

The Janie Austell Swann Dormitory cost $30,000 and accommodates 100 students. It is a handsome structure of three stories, 142 by 54 feet, and is finished in pressed brick and stone, with monumental pillars at the front entrance. It is heated by the blower system, lighted with electricity, and contains ample halls, reception-rooms, etc. The building is a memorial erected by Mr. James Swann to his wife.

The new Electrical building, costing $15,000, is three stories in height, 90x82 feet in plan, and contains the Mechanical and Experimental Laboratory, the Electrical Laboratory, Drawing-rooms, Blue-print room, and class-rooms.

A small frame structure has been built on the school property, isolated from other buildings, for the detention and treatment of students who may have contagious diseases.

The Lyman Hall Laboratory of Chemistry, which is in the shape of a T, is of brick with limestone trimmings, and is two stories in height, with a full basement. Each floor has an approximate area of 5,600 square feet. The lecture-rooms, stock-rooms, library, offices, gas analysis laboratory, photographic and spectroscopic rooms occupy the front, and the laboratories the rear wing.

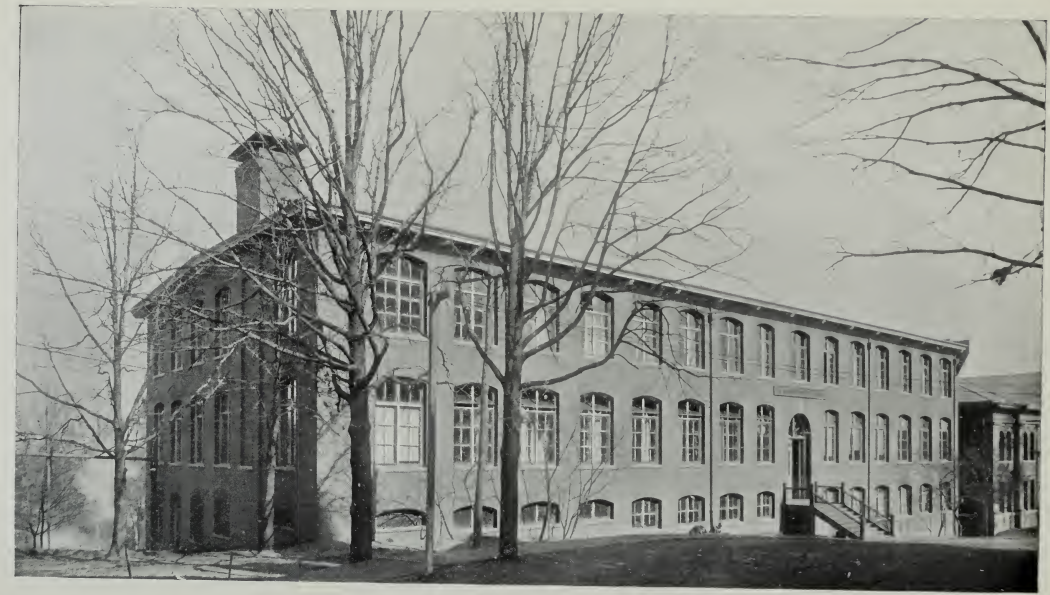
Especial care has been given to lighting and ventilation, the laboratories being lighted on three sides. For the removal of noxious gases, they are amply provided with hoods, each of which has a separate flue leading to a tight wooden fume-box located just under the roof. This box communicates with the outer air, and can be provided with forced draught if necessary.

Each student is allowed at least four feet of desk space, and will be provided with gas, water, and a separate locker.

There are three lecture-rooms, the largest with a seating capacity of about one hundred.

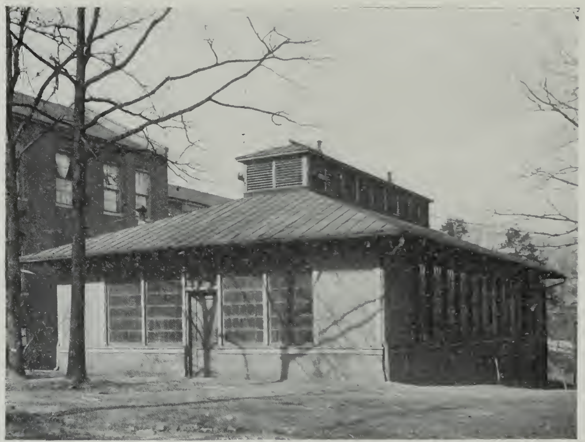
The Laboratory for Elementary Chemistry occupies the entire lower floor of the rear wing, and will accommodate about 229 students. The upper floor of this wing is devoted to the qualitative and quantitative laboratories, having working space

SHOPS AND MAIN BUILDING—FRONT VIEW.



A. FRENCH TEXTILE BUILDING.

WOOD AND MACHINE SHOPS, AND FOUNDRY.



SMITH SHOP.

LYMAN HALL LABORATORY OF CHEMISTRY.

ELECTRICAL BUILDING.

for 30 and 60 students respectively. The remainder of this wing is occupied by a research laboratory and a room set apart for the use of hydrogen sulphide.

Stock-rooms provided with a freight lift, are placed convenient to the laboratories.

The balance-room is located so as to secure light from the northeast. It is provided with double-door, to prevent access of laboratory fumes, and a pier of masonry, free of all contact with the building. Upon the pier the most delicate weighings may be carried out without interference of vibrations.

A reading-room on the second floor contains the leading current journals and reference books relating to Chemistry.

A special room is devoted to organic combustions and gas analysis, and there are dark-rooms for spectroscopic work and photography.

The large basement in the rear wing allows ample room for an assay plant and additional facilities to be added later.

The beautiful new Carnegie Library building has been completed, and has been fully equipped with the most modern library appliances. The building is constructed of pressed brick with ornate limestone trimmings, and is a model of beauty and convenience. In the full basement are assembly and club-rooms, binding, storage and janitor's rooms, while the first story contains the handsome reading rooms, librarian's office, stack and seminar rooms. The building is seventy-five and one-half feet front, by fifty-eight feet deep.

Equipment.

The Mechanical, Electrical, Chemical, Experimental, and Physical laboratories have been fitted up with reference to practical work, and such additions will be made from time to time as may be required for experimental research. The apparatus and appliances are of the newest and best forms, and will be increased as occasion may demand.

The workshops have been equipped with machinery and tools from the best makers, and of the latest pattern, at a cost of over twenty-five thousand dollars. In pursuance of the fundamental idea of giving the student access to the best machinery, and experimental knowledge of the best methods of mechanical work, the Trustees have put the Mechanical Department on a footing with the most improved and complete shops in the country, and scarcely any process requiring fine material and accurate workmanship is beyond its capacity.

The shops of the institution have already won an enviable reptuation for the quality of their iron and brass castings, perfection in gear-cutting, and the beauty and variety of their wood and other work.

The Textile building has an unsurpassed equipment of cotton manufacturing machinery, listed elsewhere.

Degrees Conferred.

The degrees conferred are as follows: Bachelor of Science in Mechanical Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Textile Engineering, Bachelor of Science in Engineering Chemistry, and Bachelor of Science in Chemistry. It is proposed to add the degree of Bachelor of Science in Architecture, the Department to be added at the beginning of the session 1908-'09.

Medal.

A medal is awarded annually by the New England Manufacturers' Association to the Textile graduate who shows highest excellence in his work.

Publications.

The Georgia Tech is a bi-monthly publication, edited and managed by a duly elected student staff. It deals with school affairs, and also contains articles upon scientific and engineering topics, contributed by students, alumni, and members of the Faculty. Students will publish an annual during current scholastic year.

Night School.

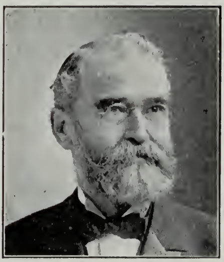
Atlanta, as a manufacturing center, has a large population of operatives, most of whom have been denied vocational training above the average standard imposed by faulty apprenticeship and financial necessity.

In addition, the expanding manufacturing interests of the city offer constantly increasing inducements to the young men who will prepare themselves for skilled labor. To meet both of above conditions, a Night School was inaugurated in the Institution March 2, 1908, and its first term will close June 19, 1908.

The Night School is supported by appropriation of the City Council of Atlanta, supplemented by a small contingent fee charged each student.

It is purposed to re-open the Night Classes on September 30, 1908, and to continue in session until June 17, 1909,—dividing the session into three equal terms of three months each. The contingent fee for each term will be $5.00.

At present, training in twenty-four trades is offered; also instruction in Elementary English and Mathematics. It will be the effort of the authorities to institute such further courses as may be justified by demand.



MR. AARON FRENCH.

The A. French Scholarships.

Mr. Aaron French, of Pittsburg, Pa., gave three scholarships to the Georgia School of Technology, which are self-perpetuating, in that the beneficiary refunds the money after graduation in payments of small monthly notes without interest.

The conditions under which the scholarships are awarded are as follows:

1. The applicant must be at least sixteen years of age.
2. No one is eligible whose family pays taxes on more than $3,000 worth of property. (Affidavits from city and county tax-collectors to this effect are required.)
3. The scholarships are to be awarded by competitive examinations in the subjects for entrance to the Freshman Class. (See page 100.)

SCHOLARSHIP NUMBER 1.

The competitive examination for scholarship number one was held at the School in the fall of 1898, and was won by Mr. W. E. Klein, of Atlanta. He graduated in 1902, and in the fall of that year, September 24, the scholarship was won by Mr. W. C. Appleby, of Winder, Ga. Mr. Appleby graduated in the class of 1906, and the scholarship was awarded by competitive examination September 26, 1906, to Mr. W. M. Fellers, of Jacksonville, Fla.

SCHOLARSHIP NUMBER 2.

The competitive examination for scholarship number two was held at the School Wednesday, September 26, 1900, under the conditions named above, and was won by Mr. G. A. Harbour, of Atlanta. He graduated in 1904, and another competition took place September 28, in that year, and was won by Mr. G. W. Gibbs, of St. Augustine, Fla., who will graduate June 18, 1908. Competitive examination to supply this scholarship will be held September 30, 1908.

SCHOLARSHIP NUMBER 3.

The competitive examination for scholarship number three was held at the School September 24, 1902, and was won by Mr. Arnold Wells, of Belton, Texas. Mr. Wells graduated in the class of 1906, and the scholarship was awarded by competitive examination held September 26, 1906, to Mr. A. J. Phillips, of McRae, Ga. Mr. Phillips found it necessary to resign during the current session, and to supply the vacancy, competitive examination will be held September 30, 1908.

Scholarships are Limited to no State or Section of the Country.

The winners of these scholarships will be furnished funds at such times as the President may think necessary for expenses, books, fees, etc., but not over $125.00 will be furnished each year.

No formal application for entrance to the competitive examination is necessary. The presence of the applicant at the School at 9 a. m., on the opening day of the fall term, will entitle him to admission to the examinations.

The T. W. Smith Scholarship.

On January 27, 1906, Mr. T. W. Smith gave a scholarship to the School, self-perpetuating on the basis of the French scholarships. Applicants must come from the Second and Fourth Congressional districts of the State of Georgia, and the successful candidate is allowed $150 per annum for a period of four years. In the competitive examination held September 20, 1906, Mr. M. C. Meadows, of Carrollton, Ga., won the scholarship.

Sessions and Terms.

The session begins the last Wednesday in September, and ends the Thursday before the fourth Wednesday in June. It will be divided into two nearly equal terms. There will be an intermission at Christmas, as indicated in the Calendar.

All students are required, and all applicants are requested, to be present at the opening hour of each session, as punctuality operates to their advantage in many ways.

Admission.

Applicants for admission to the Georgia School of Technology must be at least sixteen years of age, and must be of good moral character. There are two methods of entering: First, by examination; second, by certificate.

1. BY EXAMINATION.

Applicants for the Apprentice class and Special Textile class must pass satisfactory examinations in (a) Arithmetic, including common and decimal fractions, compound numbers, percentage, ratio, proportion, square root, cube root, and mensurations (Accuracy and speed of work are required); (b) United States History; (c) a theme on some assigned topic of national history, which will be required of each applicant as an evidence of his ability to express himself intelligently.

Applicants for the Freshman Class must pass a satisfactory examination in each of the following: (1) Elements of Algebra to simultaneous quadration; (2) Plane Geometry; (3) Arithmetic; (4) English Grammar; (5) Classics: familiarity with Burke's Speech on Conciliation, Julius Caesar, Milton's Minor Poems, Macaulay's Essay on Addison, and Macaulay's Essay on Johnson; (6) General History or equivalents; (7) Physical Geography or Physics.

Candidates for admission to advanced classes must show that they are qualified to enter the class for which they apply.

2. BY CERTIFICATE.

The Faculty of the Georgia School of Technology desires to bring the School into closer relations with the high schools of the State, hoping thereby to make the transition from the latter to the former easier for the student. Therefore, the privilege of becoming accredited, by which graduates of schools can enter without examination, is extended to those high schools on the accredited list of the University of Georgia which include in their course of study the following:

(1) One and one-half units of Algebra to simultaneous quadratics.

(2) One unit of Plane Geometry.

(3) One unit of Arithmetic.

(4) One unit of English Grammar.

(5) One unit of Classics, including the College Entrance Requirements in English as indicated "for careful study."

(6) One unit in General History, or equivalents.

(7) One unit in Physical Geography, or Physics.

A unit shall be not less than five periods per week of forty minutes each for a school year of at least eight months, or its equivalent. It is absolutely necessary that schools comply with the time requirements indicated.

Principals and superintendents desiring to have their schools placed on the accredited list will communicate with Prof. J. S. Stewart, State Agent for the University of Georgia, Athens, Ga.

Principals or superintendents will send to the Registrar of the Georgia School of Technology the certificates of such students in their schools as desire to enter. This should be done in June. Blank certificates for the purpose must be obtained from Prof. Stewart. The student must present himself for admission within one year after leaving the high school.

The work done by its graduates is ultimately the genuine test of the character of the preparation given by a high school. If, therefore, the students accepted from an accredited school shall be found deficient in preparation, that school must expect to be dropped from the list.

The following are the accredited schools:

List of Accredited High Schools of the University of Georgia and Associated Institutions.

E. English, M. Mathematics, P. G., Physical Geography, P. Physics, B. Botany, Bi. Biology, Phy. Physiology, C. Chemistry, H. History, L. Latin, G. German, F. French, Sp. Spanish, Gr. Greek, Com. Commercial Studies, Do. Sci. Domestic Science, Tech. Shop Work, Lab. Laboratory, D. P. Department Work in Teaching, C. D. college degrees, when all the High School teachers have degrees. (S) Senior High School, (M) Middle High School. Music and Art teachers are not included in the number of teachers given below. In the smaller high schools where the Superintendent does full teaching and the high school is in the same building with grades, he is given as principal. In those schools in which the Superintendent does no teaching and there is a separate building for high school, the principal is given. School authorities desiring to confer regarding accredited relations should write to Prof. Joseph S. Stewart, Athens, Ga.

High School.	Principal.	No. Teachers.
Adel High School (M)	A. N. Swain, A. B.	2, D. P., C. D. E. M., P. G., B. H., L., Ag., Library.
Albany High School (S)	B. T. Hunter, A. M.	5, D. P., C. D. E. M., P. G., P. C., H., Com., L. F..,D. Sc., Library, Lab.
Americus, Furlow High School (S)	Ralph Newton, A. B.	5, D. P., C. D. E. M., P. G., P., H., L., Library, Lab.
Ashburn High School (M)	C. H. Bishop, A. B.	3, D. P., C. D. E., M., P. G., H., Phy., L., Library.

Athens High School (M) E. B. Mell, B. S. 4, D. P., C. D. E. M., P. G., P., H., L., Gr., Library, Lab.

Atlanta.

Boys' High School, W. F. Dykes, A. B. 14 D. P., C. D., E. M., P. G., C., B., H., L., Gr., Tech., Com., Lib., Lab.

Girls High School (S) Miss Nettie Sergeant, A. B. 20, D. P., nearly all C. D. E. M., B., C., H., L., F., Com., Lib., Lab.

Marist College, H. S. Dept. (M) Geo. S. Rapier, S. T. B. 6 D. P., C. D. E., M., P. G., P., H., L., F., Library, Lab.

Peacock's School (S) D. C. Peacock, A. B. 4, D. P., C. D. E., M., P. G., P., H., L., Gr., Lab.

Auburn, Perry-Rainey H. S. (M) J. B. Brookshire, A. B. 2, D. P., C. D. M., P. G., H., L., Gr.

Augusta.

Tubman High School (S) T. H. Garrett, A. M. 8, D. P., C. D. E., M., P. G., P., Phy., C., H., L., F., Library, Lab.

Richmond Academy (M) Chas. H. Withrow, A. M. 5, D. P., 4, C. D. E., M., P., H., Phy., L., Library, Lab.

Bainbridge, Ga., Southern Military School (M) J. A. Caldwell, A. B. 3, D. P., C. D. E., M., P. G., H., L., P., Library, Lab.

Barnesville, Gordon Institute (S) J. D. Smith, A. M. 6, D. P., C. D. E., M., H., P. G., P., C., L., Gr., Com., Library, Lab.

Blakely High School (M) R. E. Brooks, A. B. 3, D. P., 2, C. D. E., M., P. G., P., H., L., Lab.

Blackshear, Presbyterian Institute (M) C. A. Sydnor, A. B. 3, D. P., C. D. E. M., P. G., H., L., F., Gr., Library.

Boston High School (M) W. E. Nichols, A. B. 2, D. P., C. D. E., M., P. G., H., L., Gr., Library.

Bowdon High School (M) W. P. Lunsford, A. B. 3, D. P., C. D. E., M., H., P. G., L. Gr. Fr., Library.

Bowman, Gibson-Mercer Academy (S) A. H. Redding, A. B. 2, D. P., C. D. E., M., P. G., H., L., G., Gr.

Broxton High School (M) S. C. Olliff, A. B. 2, C. D. E. M., P. G., B., L., Library.

Buena Vista High School (M) A. W. Strozier. 2, D. P., 1 C. D. E., M., P. G., B., H., L., Library.

Brunswick, Glenn Academy (S) H. J. Gaertner, A. M. 7, D. P., 6 C. D. E. M., P., Bi., H., L., Gr., F., Com., Library, Lab.

Calhoun High School (M) Miss Edna Baker, A. B. 2, D. P., C. D. E., M., P. G., H., L., Library.

Carrollton High School (M) H. B. Adams, A. B. 3, D. P., 2, C. D. E., M., P. G., H., L., Library.

Cartersville High School (M) H. L. Sewell, A. B. 3, D. P., C. D. E., M., P. G., H., L., Library.

Cave Spring, Hearn Academy (S) C. R. Allen, A. B. 2, D. P., C. D. E., M., P. G., H., L., Gr., G., Library.

Cedartown High School (M) J. E. Purks, A. B. 3, D. P., C. D. E., M., P. G., H., L., Gr., G., Library.

Cedartown High School (M) J. E. Purks, A. B. 3, D. P., C. D. E., M., P., G., H., L., Gr., Library, Lab.

Cedartown, Samuel Benedict Memorial School (M) Geo. E. Benedict, A. B. 2, D. P., C. D. E., M., B. G., Phy., Ag., H. L., Library.

Claxton, Tatnall Institute (M) W. L. Newson, Ph. D. 3, D. P., C. D. E., M., B. G., B., H., L., F.

Columbus Hight School (S) J. A. Duncan, A. M. 6, D. P., C. D. E., M., Phy., P., C., B., H., L., G. Gr., Sp., F., Library, Lab.

Columbus Industrial School (M) L. J. Rodgers. 6, D. P., 3 C. D. E., M., P., C., H., Tech., Com., Do. Sci., Lab., shops, etc.

College Park, Ga. Military Academy (S) J. C. Woodward, A. M. 8, D. P., C. D. E.M., P. G., P., C., H., Lr., Laboratory, Lab.

Comer High School (M) T. H. Brame. 2, College Study. E. M., P. G., H., L., Gr., Library.

Commerce High School (M) W. F. Brown, A. B. 3, D. P., C. D. E., M., P. G., Phy., H., L., Library, Lab.

Cordele, O'Neal High School (M) F. E. Land, A. B. 3, D. P., C. D. E., M., P. G., P., H., L. Lab.

Cornelia High School (M) J. W. Marion. 3, D. P., 2 C. D. E. M., P. G., P., B., H., L., Gr., Lab.

Dallas High School (M) H. H. Ezzard, B. S. 2, D. P., C. D. E., M., P. G., Phy., H., L., Gr., Library.

Dawson High School (M) R. H. Hankinson, A. B. 4, D. P., C. D. E., M., P. G., P., C., H., L., F., Library, Lab.

Demorest, Piedmont College, H. S. Dept. (S) H. C. Newell, A. M. 7, D. P., C. D. E., M., P., Phy., C., H., L., G., Gr., F., Lib. Lab.

Decatur, Donald Fraser (S) G. H. Gardner, A. M. 5, D. P., C. D. E., M., P. G., H., L., Gr., Library.

Douglasville High School (M) W. E. Dendy, A. B. 2, D. P., C. D. E., M., P. G., H., L., Library.

Dublin High School (M) K. T. Alfriend, A. B. 3, D. P., C. D. E., M., P. G., P., C., H., L., Gr., Library, Lab.

Eastman High School (S) W. A. Mulloy, A. B. 3, D. P., 2, C. D. E., M., P., Phy., H., Gr., Library, Lab.

Eatonton High School (M) W. C. Wright A. B. 2 College Degrees. E., M., P. G., P., H., L., Lab.

Elberton High School (M) Wilbur Colvin, M. S., LL. D. 3, D. P., C. D. E., M., P. G., P. Phy., H., L., F., Gr., Com. Lab.

Fitzgerald High School (S) E. E. Tyner, M. S. 3, D. P., C. D. E., M., P. G., P., Bi., Phy., H., L., Library, Lab.

Forsyth, Banks Stephens Inst. (M) M. C. Allen, A. B. 3, D. P., C. D. E., M., P. G., B., H., L., Library, Lab.

Fort Gaines High School (M) Van Fletcher, A. B. 2, D. P., C. D. E., M., P. G., H., L., Library.

Gainesville High School (M) E. J. Robeson, A. B. 2, D. P., C. D. E., M., P., G., H., L., Library, Lab.

Griffin High School (M) W. T. Garrettt, A. B. 3, D. P., C. D. E., M., P. G., P., C., H., L., F., Gr., G., Library, Lab.

Greensboro High School (M) J. H. Purks, A. B. 3, D. P., C. D. E., M., P. G., H., L., Library.

Hartwell Institute (M) J. P. Nash, A. B. 2, D. P., C. D. E. M., P. G., P., H., L., Gr., Library, Lab.

Hawkinsville High School (M) T. G. Polhill, A. B. 3, D. P., C. D. E., M., P. G., Phy., H., L., Gr., Library, Lab.

Hogansville High School (M) James T. McGee, A. B. 2, C. D. E., M., P. G., L.

Jackson High School (S) W. R. Lanier, B. S. 3, C. D. E., M., P. G., H., L., Gr., Library.

Jefferson, Martin Institute (M) H. M. Ivey, A. B. 3, D. P., C. D. E., M., P. G., Phy., H., L., Gr., Library.

LaGrange High School (M) J. E. Ricketson, B. S. 5, D. P., C. D. E., M., P. G., P., B., H., L., Gr., Library, Lab.

Locust Grove Institute (S) Claud Gray, A. B. 4, D. P., C. D. E., M., P. G., H., L., Gr., Library.

Louisville High School (M) J. W. Farmer, A. B. 2, C. D. E. M., P. G., P., H., L., Gr., Library, Lab.

Lumpkin High School (M) J. N. Haddock, A. B. 2 C. D. E., M., P. G., H., L., F., Gr., Library.

Macon, Gresham Academy (M) R. J. Coates, A. B. 13, D. P., C. D., M., P. G., P., B., H., L., Com., Tech. Do. Sci., Lib., Lab.

Madison High School, L. M. Spruell, B. S. 3, D. P., C. D. E. M., H., L., Phy., Library.

Marietta High School (M) Wm. T. Dumas, A. M. 3, C. D., C. D. E., M., P. G., P., C., H., L., Gr., Library, Lab.

Milledgeville, Ga. Military College (S) Wm. E. Reynolds, A. M. 6, D. P. E., M., P. G., P., C., H., L., F., Lab.

Monroe High School (M) J. C. Upshaw, A. B. 3, D. P., C. D. E., M., P., G., H., F., Library.

Monticello High School (M) O. R. Horton, A. B. 3, D. P., C. D. E., M., P. G., H., L., B., Library.

Montezuma High School (M) J. M. Richardson, A. B. 2, D. P., C. D. E., M., P. G., H., L., Library.

Moultrie High School (M) L. A. Smith, A. B. 3, D. P., C. D. E., M., P. G., P., H., Library, Lab.

McDonough High School (M) W. D. Greene, A. B. 2, D. P., C. D. E., M., P. G., H., L., Library, Lab.

McRae, South Georgia College (S) R. J. Strozier, A. M. 4, C. D. E., M., P. G., P., C., H., L., Gr. Library, Lab.

Newnan High School (M) C. K. Henderson, A. B. 3, D. P., C. D. E., M., P., H., L., Library, Lab.

Norman Park, Normal Institute (S) O. A. Thaxton, A. M. 4, D. P., C. D. E., M., H., P. G., P., B., Phy., L., Gr., Libray, Lab.

Ocilla High School (M) J. J. Flanders, A. B. 2, C. D. E., M., P. G., Phy., H. L., Library.

Pelham High School (M) T H. Wilkinson, A. B. 2, D. P., C. D. E., M., P. G., H., L., Library.

Rome High School (M) W. P. Jones, A. B., 4, D. P., C. D. E. M., P. G., P., Phy., H., L., Lab.

Rome, Darlington High School (S) J. R. McCain, A. M. 2, D. P., C. D. E., M., P. G., P., Phy., H., L., Gr., Library, Lab.

Rome, Boys' Industrial School (M) R. H. Adams, A. B. 3, D. P., 2 C. D. E., M., P. G., Ag., H., L., Manual Training, Lab.

Sandersville High School (M) John Gibson, A. M. 3, C. D. E., M. P. G., P., H., L., F., Library, Lab.

Savannah, Chatham Academy (M) B. F. Pickett, A. B. 10, D. P., C. D. E., M., P. G., C., L., Manual T., Lab., Library.

Sautee, Nacoochee Institute (S) J. T. Wade, A. B. 3, D. P. C. D. E., M., P., G., H., L., F., Gr., Library.

Senoia High School (M) Miss Raiford Sneed, A. B. 2, D. P., 2 C. D. E., M., P. G., H., B., L..

Social Circle High School (M) W. C. Carlton, A. B. 2, C. D. E., M., P. G., Phy., H., L., F.

Sparta High School (M) T. H. Smoot, A. B. 2, C. D. E., M., P. G., P., H., L., Library, Lab., Man.. T.

Statesboro High School (M) F. A. Brinson, A. B. 2, C. D. E., M., P. G., P., H., L., Lab.

Stone Mountain, University School (S) W. B. Griffin, A. M. 9, D. P., C. D. E., M., P. G., P., H., L., F., G., Gr., Library, Lab.

Swainsboro High School (M) J. R. York, B. S. 4, D. P., 3 C D. E., M., P. G., H., L., Com., Library.

Talbotton High School (M) C. D. Reade, Ph. B. 2, C. D. E., M., P. G., H., L.

Tallapoosa High School (M) A. L. Brewer, A. B. 2, D. P., 2 C. D. E., M., P. G., P., H., L., Lab., Library.

Tennille High School (M) C. V. Asbury, B. S. 3, D. P., C. D. E., M., P. G., B., H., L., F., Library.

Thomasville High School (M) G. H. Boutelle. 2, D. P., college courses. E., M., P. G., P., H., L., Library, Lab.

Thomaston, R. E. Lee Inst. (M) F. F. Rowe, A. M. 3, D. P., C. D. E., M., P. G., P., H., L., Gr., Library, Lab.

Tifton High School (M) Jason Scarboro, A. B. 2, D. P., C. D. E., M., P. G., P. H. L., C., Library, Lab.

Valdosta High School (M) W. O. Cheney, A. B. 4, D. P., 3 C. D. E., M., P. G., P., H., L., Lab.

Vidalia High School (S) E. L. Ray 3, D. P., college courses. E., M., P. G., P. H. L., Gr., Library, Lab.

Vienna High School (M) C. G. Power. 2, D. P., 1 college course. M., P., G., H., L., Gr.

Wadley High School (M) A. F. Ware, A. B. 2½,. C. D. E., M., P. G., P., H., L., F., Library, Lab.

Warrenton High School (S) H. B Carreker, A. B. 2½, D. P., C. D. E., M., P. G., P., H., L., F., Gr., Library, Lab.

Washington High School (M) T. G. Wilkinson, A. B. 2½, D. P., C. D. E., M., P. G., H., L., Library, Lab.

Waycross High School (M) N. A. Goodyear, A. M. 4, D. P., C. D. E., M., P. G., P., H., H., L., F., Gr., Library, Lab.

Waynesboro High School (M) M. L. Parker, A. M. 2, C. D. E., M., P. G., P., B., H., L., Com., Lab.

West Point High School (S) W. P. Thomas, A. B. 3½, D. P., C. D. E., M., P. G., P., B., C., H., L., Library, Lab.

Winder High School (M) J. T. Walker, M. A. 3, D. P., C. D. E., M., P. G., H., L., Library.

Winterville High School (M) T. R. Edwards, A. B. 2½, D. P., C. D. E., M., P. G., P., H., L., Library.

Wrightsville, N. L. Warthen Institute (S) W. E. Lumley. 4, C. D. E., M., P. G., P., B., Phy., H., L., Gr., Library, Lab.

EXAMINATIONS.

While students may enter at any time and be examined on entrance, two general entrance examinations will be held: one at the time of the final examinations for the school session, about June 8, and the other at the opening of the fall term, September 30. Applicants for admission to Apprentice and higher classes will be admitted to either or both of these examinations.

Candidates for Freshman Class, not graduates of accredited High Schools, may stand entrance examinations at their homes during the last week in May. For full particulars, address the Registrar, Georgia School of Technology.

Final examinations are held at the end of each term. Students are liable to be dropped from the roll of their class at any examination when they do not meet the requirements, and at any time when they neglect their studies and fall hopelessly behind their classes. No tuition or fees are refunded under such circumstances. All examinations are written.

Good-Record Certificate.

All new students must present a certificate from the last school they attended, stating they left in good standing with the authorities.

Reports.

Reports of the standing of students are issued at the close of each term.

Bulletin-boards are placed in the halls of the Academic building, and upon these are posted each month the grading of students as ascertained by the monthly examinations.

Whenever a student is deficient in any study or department at the close of any month, a report of such fact is sent to his parents.

Library.

Through the generosity of Mr. Andrew Carnegie a $20,000 Library Building now adorns the campus. The sum of $3,000 was appropriated for its equipment, which is now complete. At the beginning of the College year the new Library was reorganized and thrown open to all. There have been about 1,000 volumes added to the already well-selected library of over 3,500, making a total of 4,500 volumes. These acquisitions are partly due to purchase from the regular appropriation, and partly to the generosity of friends who have responded to appeals for aid.

In addition to the donations in cash and in books already received, the further contributions constantly being made promise well for the future growth of the library. Valuable literary and scientific reference-books have been acquired, and departments established in fiction, history, biography, travel, philosophy, and natural and applied science.

The library is in charge of a competent, and thoroughly trained librarian and her assistant. All books and pamphlets, as soon as received, are classified and catalogued in accordance with the most approved card system.

Besides its books, the Library is supplied with some 75 or 100 of the leading papers and periodicals of this country and England. Library hours are from 9:00 a. m to 6:00 p. m., daily; and Friday and Saturday evenings from 7:00 p. m. to 10:00 p. m.

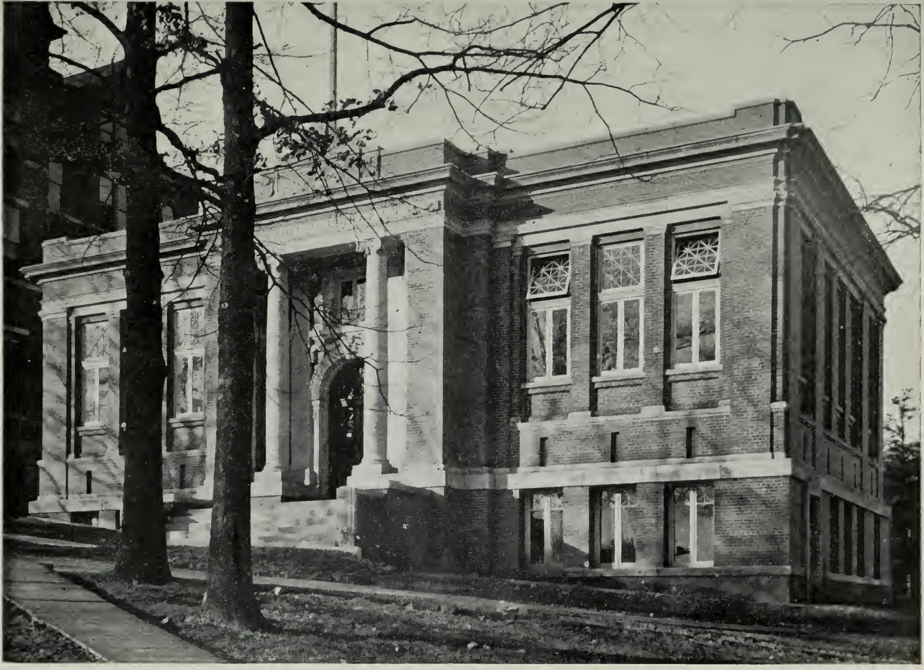
Atlanta Carnegie Library.

In addition to the School library, students have free use of the Atlanta Carnegie Library, where they are always welcome. This library contains 40,000 volumes; and, besides many books of reference added within the past year, a large number of very valuable technical works have been purchased and have been made available to students.

Tuition and Fees.

Each county in the State is entitled to fifteen free scholarships.

These scholarships will be awarded on the ground of excellence in character and preparation, and time of entrance.



CARNEGIE LIBRARY BUILDING.

THE
JOHN CRERAR
LIBRARY

The amount of tuition charged to the excess of fifteen from a county of this State is $25.00 per annual session.

Residents of other States pay a tuition fee of $100.00 per year in addition to the fees of $25.00 and $5.00 mentioned below.

Every student, of whatever place of residence, pays an annual fee of $25.00 to cover contingent expenses. Half of this amount is payable on entrance, and the remainder on or before the first Saturday after February 10.

A contingent fee of $5.00 will be required to be deposited with the treasurer on entrance, to cover injury done College buildings or furniture, which sum will be returned to the student on leaving, if not forfeited.

All students will be required to deposit at the beginning of the fall term:—

$12.50 of the annual fee,
$5.00 damage fee, unless already deposited,
$12.50 of the tuition fee, if subject to tuition;

And on or before the first Saturday after February 10—

$12.50 of the annual fee,
$12.50 of the tuition fee, if subject to tuition.

Residents of other States are subject to the above requirements, substituting $50.00 for the amount of the tuition fee per half year.

Each member of the Senior class must pay a diploma fee of $5.00 before graduating.

Until the above requirements are complied with, no student will be allowed to participate in the duties and recitations of his class.

The student is advised to defer the purchase of drawing instruments and materials until he can have the direction of the professors in their selections. The prices range from $8.00 to $15.00.

Text-books and stationery can be purchased from the School Quartermaster at reasonable rates. The student is advised, however, to bring such scientific books as he may possess.

No fees are refunded to students who are required to leave for deficiency in conduct, in shop or mill work, or in studies, or who may withdraw for any reason, except for disabling sickness, properly certified to by a reputable physician. In the latter event, an equitably prorated amount will be refunded.

Dormitories.

All students in the Apprentice and Freshman classes who do not reside with their parents, relatives, or guardians are required to board in the School dormitories.

This regulation was passed by the Board of Trustees April 2, 1902, after a careful examination of the advantages and protection afforded by the dormitories to students of the two lower classes, and all such students as are physically or otherwise unable to comply with the law, will not be retained in the School.

Only two men will be assigned to a room, and students of the higher classes will not be accommodated in the dormitories until all eligible lower classmen have been assigned rooms. Students to the number of sixty, living in the vicinity of the School, however, will be accommodated with table board in the dining-hall at the rate of $12.00 each per month—the privilege to be accorded in the order of application.

Board and Expenses.

The School is provided with dormitory accommodations for two hundred students. The rooms are well lighted and ventilated. Hot and cold shower-baths are accessible to all students, in a new and well-heated bath-room.

The price of board, including laundry, fuel, and lights, is $15.50 per month payable in advance. As the dormitories are conducted on a strictly mutual plan and without financial profit to the School, the right is reserved to increase above charge should it prove insufficient to meet operating expenses. This contingency is not probable, however. As stated elsewhere, table board at the rate of $12.00 per month, in advance will be allowed sixty students not living in the dormitories.

Board is not refunded to students unless they have been absent over ten days.

KNOWLES DORMITORY.

SWANN DORMITORY.

All students who desire rooms in the dormitories must write and secure them before reporting for duty, as the dormitories do not accommodate one-half of the students who are in the institution.

Students who board in the dormitories are required to furnish the following articles: One pillow, three pillow-cases, four sheets, blankets or comforts, six towels, and any other small and portable articles needed about their rooms. The articles named should be brought from home. The school furnishes with each room: Beds (single three-quarter width), mattresses, springs, wardrobe or closet, washstand, bureau, and table.

Each member of the Freshman class must provide himself with gymnasium uniform and shoes, the total cost of which is about $2.00. See page 77.

Each student should have two suits of overalls, costing about $1.00 each.

The cost of books, etc., in the Freshman year is relatively large on account of the purchase of drawing instruments.

Discipline and Dormitory Regulations.

The students of the School have a record for good conduct unsurpassed by any corps in the country.

They are required to obey but few regulations, the authorities bearing in mind the development and best interest of the student-body.

Every man is expected to conduct himself in a gentlemanly manner. When he fails in this and convinces the authorities that he has not come to work, his parents are requested to withdraw him.

Special Textile students and students having but few lessons to prepare will not be admitted to the dormitories.

Patrons or prospective patrons will be furnished upon application with the printed Rules and Regulations of the School.

Specimen Examinations for Entrance.

Apprentice Class and Special Textile Course, Pages 80 and 92.

1. Subtract $\frac{13.2 - 4\frac{1}{6}}{2\frac{1}{3} \times 72}$ from $\frac{6\frac{1}{7} + 7\frac{1}{6}}{4\frac{2}{3} \div \frac{7}{3}}$ Give answer in fractional form.

2. If money bears 6 per cent. interest how much profit can a man make who borrowed $3,000 June 1, 1906, and invested it in 8 lots, which he sold April 16, 1907, at $412.50 apiece, paying back the borrowed amount with the interest?

3. Find the circumference of a circular field which contains 3 A 120 sq. rods and 15 sq ft.

4. If 10 men working 8 hours a day for 7½ days can dig a cellar 40 ft. long, 5 2-3 ft. deep, and 21 ft. wide, how deep must a cellar be if it is 35 ft. long, 24 ft. wide and it takes 12 men working 9 hrs. a day 8 1-3 days to dig it?

5. A grain bin measures 9 x 10 x 12 ft. What will be the dimension of a cubical bin 100 times as large? Give Ans. to 2 decimals.

6. If a metal is 11.2 times as heavy as water how many cu. in. of water will weigh as much as 5½ cu. ft. 800 cu. in of the metal?

7. If 20 oranges out of 120 are damaged, at what per cent. of the cost of all must the rest be sold in order that the dealer shall make 20 per cent. on his investment?

FALL ENTRANCE—U. S. History.

I. (a) Tell when and how America was discovered.

(b) Who was De Soto? La Salle? Sir Walter Raleigh? John Rolfe?

II. What was the cause and result of King William's War? Queen Anne's War? King George's War? The French and Indian War?

III. Describe two of the principal battles of the Civil War.

IV. Name three prominent statesmen of the Confederacy and tell what you can of their public career.

V. (a) What generals of the Civil War became presidents?

(b) What was the Fugitive Slave Law? The Missouri Compromise?

VI. (a) Tell the time and occasion of Lincoln's assassination.

(b) Why was President Johnson impeached?

VII. (a) What are the three branches of the present government?

(b) Who succeeds the President in case of death?

VIII. (a) Name several important inventions of the 19th Century.

(b) What is the present population of the country?

Topics Suggested for Theme Writing.

1. Captain John Smith's career in America.
2. Puritan Colonial Customs.
3. The first Iron-Clads.
4. The rapid settlement of the West.
5. The South's view of Secession.
6. Inventors who have done most for the country.

Freshman Class.

FALL ENTRANCE—Geometry.

1. If two lines are cut by a transversal, making the alternate interior angles equal, the lines are parallel.

2. Triangles that have their corresponding sides proportional are similar.

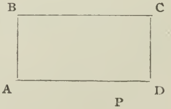
3. Similar polygons are to each other as what? Prove.

4. Inscribe a decagon in a circle.

5. The diagonals of a regular pentagon form by their intersection a second regular pentagon.

6. A B C D is a rectangle and P any point from which lines are drawn to its vertices. Prove

$$\overline{AP}^2+\overline{CP}^2=\overline{BP}^2+\overline{DP}^2$$



7. Given the base of a △ and the ratio of the other two sides. Find the locus of its vertex.

8. If the sum of one pair of opposite sides of a quadrilateral is equal to the sum of the other pair, a circle can be inscribed in the quadrilateral.

FALL ENTRANCE—Algebra.

1. Factor (a) $81a^8+16b^8-97a^4b^4$; (b) $2x^3-x^2-13x-6$; (c) $20x^2-xy-99y^2$.

2. Solve $\frac{x}{x-1}-\frac{5}{2x-2}=\frac{8}{3x-3}-\frac{x}{x-1}+\frac{5}{18}$

3. A dealer sold a certain quantity of eggs. If he had sold 125 doz. more at 1ct. a doz. less, or 120 doz. less at 1ct. a doz. more, he would have received the same amount of money for his eggs. Find the price per doz.

4. Find to four terms the square root of $1+a$.

5. Show that an imaginary number can not equal a real number.

Find the product of $2\sqrt{7}-3\sqrt{-8}$ and $3\sqrt{7}-10\sqrt{-2}$.

6. Simplify $\sqrt[13]{[a^6b^4\sqrt{\{a^2b^2c^8\sqrt[4]{a^{-2}b^{-4}c^{-6}}\}}]^{12}}$.

7. (a) Simplify $\sqrt{11\frac{1}{4}}+3\sqrt{8}-\sqrt{20}-\frac{1}{6}\sqrt{245}-5\sqrt{\frac{1}{18}}-\sqrt{24\frac{1}{2}}$.

(b) Solve $2\sqrt{x+3}-2\sqrt{x-12}=5\sqrt{x-9}$.

8. Solve $x^4-6x^3+7x^2+6x-8=0$.

9. Discuss the character of the roots of $ax^2+bx+c=0$.

10. A body of soldiers can form a hollow square four men deep. If the outer side of the hollow square is diminished by 36 men the soldiers can form a solid square. Find the number of soldiers.

Freshman Class.

FALL ENTRANCE—English.

(English Grammer).

I. Name and define the Parts of Speech. What parts of speech are inflected, and what name is given to the inflexion in each instance?

II. Into what classes are nouns divided? Mention four ways of forming the plural of nouns. Three ways of distinguishing their gender by their form. Inflect *duke, Norman, son-in-law, woman-servant.*

III. Name with examples five classes of pronouns. Inflect the personal pronouns and relative pronoun *who.* How do the relatives differ in use?

IV. Give five noun constructions requiring the nominative case; five requiring the objective case. Parse the nouns and pronouns in: But me no buts. He waited a year; then declared himself the murderer. The day being foggy, the hill seen through the mist seemed a mountain.

V. Parse the adjectives in:

> "And his droop'd head sinks gradually low,
> And through his side the last drops, ebbing slow
> From the red gash, fall heavy, one by one,
> Like the first of a thunder shower."

VI. What do adverbs modify? Write an illustration of each use. Inflect *well, ill, much, heavy.* Name with examples the two general classes of conjunctions.

VII. Define the terms: Transitive Verb, Intransitive Verb, Auxiliary Verb, Impersonal Verb, Passive Voice. Write the indicative mode of *shake;* the subjunctive of *be.*

VIII. What are participles and infinitives? Parse the participles and infinitives in: "Desiring to succeed makes it possible for us to succeed, though the noblest desire to work can often do nothing but wait; still, fearing nothing let us face the future, remembering that to dare will be to do—God willing."

IX. What is a phrase, a clause, a sentence? As what parts of speech may a phrase be used? Use *where the battle was fought* as a noun, as an adjective, as an adverb.

X. How are sentences classified, according to form, or structure; according to use? Define each class. Analyze:

> "Sweet are the uses of adversity,
> Which like the toad, ugly and venomous,
> Wears yet a precious jewel in his head."

Freshman Class.

FALL ENTRANCE.

(English Classics.)

JULIUS CAESAR.

1. How is Cæesar's popularity shown in the first scene?
2. Mention the different warnings given Cæesar that his life is in danger.
3. Relate the incidents of the assassination.
4. Describe the fight at Philippi, and tell of the fate of the defeated leaders.

MACAULAY'S ESSAY ON ADDISON.

1. Give some account of the early life of Addison.
2. What else besides literature occupied his maturer years, and what success did he attain in its pursuit?
3. What are his best literary works?
4. Write a character-sketch of Addison, and give an account of his last days.

MACAULAY'S LIFE OF SAMUEL JOHNSON.

1. About what time did Johnson live, and who were some of his contemporaries?
2. Sketch his life through his school days.
3. Name some of his most prominent characteristics as a man.
4. Name his three best works.

CONCILIATION WITH AMERICA.

1. Why does Burke think that force should not be used against America?
2. What three possible methods of dealing with America are mentioned, and which does he urge?
3. Give briefly three of the strongest arguments for conciliation.

LYCIDAS.

1. Relate the circumstances that led to the writing of the poem.
2. Why, in beginning, address *laurels*, *myrtles*, and *ivy?*
3. Explain the italicised words:

> "I come to pluck your berries *harsh* and *crude,*
> And with *forced* fingers *rude*
> Shatter your leaves *before the mellowing year.*"

4. In what connection does the author mention the English clergy, and what does he say about them?
5. Explain the italicised words:
   (*a*) "For we were nursed upon the selfsame hill, etc."
   (*b*) "To sport with *Amaryllis* in the shade,
   Or with the tangles of *Neaera's* hair."
   (*c*) *The Pilot of the Galilean Lake.*

Freshman Class.

FALL ENTRANCE—General History.

(Give dates when possible.)

1. Give dates for the following: (a) Alexander's Conquest. (b) The Second Punic War. (c) The Reign of Augustus Cæsar. (d) The Norman Conquest of England. (e) The invention of printing. (f) The posting of Luther's theses.

2. Give an account of the Peloponnesian War and its results.

3. Who was Solon? Hannibal? Charlemagne? Mohammed?

4. Name and describe the invasion and settlement in the Roman Empire of three or more Teutonic tribes.

5. Describe the ideal feudal system.

6. Tell what you know of: (a) Pope Gregory VII; (b) Excommunication; (c) Interdict.

7. Give the causes and results of the Crusades.

8. Tell all you know of: (a) The Magna Charta; (b) The first English House of Commons.

9. Describe: (a) The "Divine Right" of kings; (b) The Invincible Armada.

10. Discuss fully: (a) The treaty of Westphalia; (b) The causes of the French Revolution.

Freshman Class.

FALL ENTRANCE—Physical Geography.

1. Draw a diagram showing: (1) The westerly and trade winds in January; (2) Wave motion.

2. Give the causes of: (1) Ocean currents; (2) Tides.

3. Describe a belted coastal plain, giving example.

4. Describe a mature block mountain.

5. Tell what you know of the distribution of volcanoes on the globe.

6. (1) What is a dismembered river? (2) What is an antecedent river? (3) What an engrafted river?

7. Describe a river flood-plain, giving cause.

8. Name the principal agents of destruction, discussing each briefly.

9. Describe a glaciated region, using a section of the United States as an example.

10. Discuss the classes of shore lines and the effects of elevation and depression upon each.

Students' Societies.

The Young Men's Christian Association, the largest student organization in the institution, has its rooms in the basement of the Academic building. The strongest feature of the Association is its Bible study department. During the year 1907-1908 more than two hundred students have been enrolled in classes for systematic daily study of the Bible. The men are placed in congenial groups, of from 6 to 12 men, under the leadership of students, who in turn are coached by members of the Faculty. The four courses used in these classes are thoroughly modern and scholarly. Every student in college is urged to become a member of one of these classes.

Devotional meetings conducted by students are held on Wednesday evenings, and there is an average of two addresses per month on Sunday evenings by outside speakers and religious leaders.

The Association employs as General Secretary, Mr. E. A. Turner, M.A. and LL.B., from Wake Forest College, who gives his entire time to the work of the Association among the students.

Following is the Budget for 1907-1908:

Budget.

Of the Young Men's Christian Association, Georgia School of Technology, 1907-1908.

Receipts.

Students Fees	$325.00
Students Subscription	75.00
Faculty Subscription	225.00
City Sunday School	80.00
Board of Trustees	350.00
Business Men	210.00
Private Subscriptions	95.00
Hand Book	90.00
Total	$1,450.00

Expenditures.

Evangelical and Special Meetings	$ 95.00
Piano	30.00
Student Conference	200.00
International and State Committees	30.00
Printing	40.00
Social Committee	25.00
Telephone	50.00
Hand Book	90.00
Furnishings for Hall	20.00
General Secretary's Salary	800.00
Miscellaneous	70.00
Total	$1,450.00

A Word to Parents.

Urge your son to join one of the Bible Study groups, for nothing makes for character as a few minutes each day spent in definite devotional Bible Study. The fellowship of the groups is incalculable in value.

Furnish your son with two extra dollars and urge him to join the Young Men's Christian Association.

The General Secretary and the officers of the Association stand ready to help your boy in any way they can; insist on his looking for them on his arrival.

LITERARY SOCIETY.

The Criterion Literary Society is organized to promote among its members experience in debating, extemporaneous speaking, and essay writing. The Society meets every Monday afternoon at 4 o'clock.

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REGISTER OF GRADUATES.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
George G. Crawford Wilkinson	'90	M.E.	President Tennessee Coal, Iron and Railroad Co., Birmingham, Ala.
Henry L. Smith.. Rockdale	'90	M.E.	President and Treasurer of D. & H. L. Smith Co., Manufacturers, Dalton, Ga.
Percy C. Brooks . DeKalb	'91	M.E.	Manager, Sec'y. and Treasurer Fairbanks-Morse Canadian Mfg. Co. Ltd, Toronto, Canada.
Julius L. DeGive. Fulton	'91	M.E.	Manager Grand Opera House, Atlanta, Ga.
W. H. Glenn .... Fulton	'91	M.E.	Manager Railways Georgia Railway & Electric Co., Atlanta, Ga.
J. D. Goldsmith.. Fulton	'91	M.E.	With Southern Railway Shops, Atlanta, Ga.
J. H. Jones .... Fulton	'91	M.E.	Engineer in charge of Fox Coal Co., New Soddy Coal Co., Sale Creek Coal and Coke Co., Soddy, Tenn.
J. B. McCreary .. Coweta	'91	M.E.	J. B. McCreary & Co., Consulting Engineers, Water, Lights, Sewerage, Empire Bldg., Atlanta, Ga.
J. S. Moore .... Thomas	'91	M.E.	Mechanical Engineer, Palatka, Fla.
C. M. Pritchett .. Bartow.	'91	M.E.	Civil Engineer, Charlotte, N. C.
C. E. Ard .... Stewart.	'92	M.E.	Professor of Physics and Electrical Engineering, Agricultural College, Miss.
J. W. Bridge .... Fulton.	'92	M.E.	Mechanical and Electrical Engineer, United Coal Co., Naome Coal Co., Jerner-Quemahoming Coal Co., Pittsburg & Baltimore Coal Co., Pittsburg, Pa.
A. R. Colcord.... Dodge.	'92	M.E.	President Colcord Lumber Co., Atlanta, Ga.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
E. W. Collins ... Cobb.	'92	M.E.	Superintendent American Chemical & Milling Co., Atlanta, Ga.
E. H. Davis ..... Putnam.	'92	M.E.	Consulting Engineer, Electric Lights, Water Works, Sewerage, Griffin, Ga.
C. E. Fairbanks .. DeKalb.	'92	M.E.	Equipment Engineer, New York & New Jersey Telephone Co., Newark, N. J.
George Freeman Chatham.	'92	M.E.	Deceased.
Wm.A.Hansell, Jr Fulton.	'92	M.E.	Civil Engineer and Superintendent of Construction, Fort McPherson, Ga.
N. B. Hudson .... Rockdale.	'92	M.E.	Traveling Salesman R. D. Cole Mfg. Co., Newnan, Ga.
M. W. Johnson,Jr. Fulton.	'92	M.E.	With Tennessee Coal, Iron and Ry. Co., Birmingham, Ala.
C. B. Little ...... Putnam.	'92	M.E.	Asst. Supt. and Mechanical Engineer Brownell Co., Engine and Boiler Manufacturers, Dayton, Ohio.
M. M. Pearson .. Tattnall.	'92	M.E.	Draughtsman, General Electric Co., Schenectady, N. Y.
J. G. Rossmon .. Greene.	'92	M.E.	Consulting Engineer, Development, Construction and Re-organization, Water Power & Electric Properties, 80 Wall St., New York.
T. F. Ccully .... Fulton.	'92	M.E.	Deceased.
J. B. Sherard .... Jackson.	'92	M.E.	Deceased.
W. P. Walthall... Campbell.	'92	M.E.	With Forrest and George Adair, Real Estate Agents, Atlanta, Ga.
Z. Whitehurst .... Wilkinson.	'92	M.E.	Wholesale and Retail Druggists, Dublin, Ga.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
F. E. Whitney ... Richmond.	'92	M.E.	With With Commercial Truck Co. of America, Philadelphia, Pa.
A. D. Black .... Floyd.	'93	M.E.	Asst. Engineer, Dist. Engineer Corps, District of Columbia, Washington, D. C.
E. E. Davis ...... Chatham.	'93	M.E.	Deceased.
S. F. Jeter .... Fulton	'93	M.E.	Mechanical Engineer, The Bigelow Company, New Haven, Conn.
Joe W. Little .... Fulton.	'93	M.E.	President Southern Electric Construction Co., Atlanta, Ga
H. L. Long, Jr. .. Lee.	'93	M.E.	Doctor of Medicine, Leesburg, Ga.
M. W. McRae.... Bibb.	'93	M.E.	Contractor, Colonia, City of Mexico, Mexico.
H. H. Miles...... Fulton.	'93	M.E.	Second Vice-President, Blue Ridge Marble Co., Nelson, Ga.
A. R. Murray..... Cobb.	'93	M.E.	Chief Draughtsman, The Cincinnati Shaper Co., Cincinnati, Ohio.
W. J. Nalley .... Douglas.	'93	M.E.	Mechanical Consulting and Civil Engineer, Austell Building, Atlanta, Ga.
H. G. Nowell .... Walton.	'93	M.E.	Attorney-at-Law, Member General Assembly of Georgia, Local Counsel Georgia Railroad, Vice-President Farmers Bank, Monroe, Ga.
H. T. Phillips .... Fulton.	'93	M.E.	Treasurer of Phillips & Crew Co., Atlanta, Ga.
W. O. Connor, Jr. Floyd.	'94	M.E.	Superintendent, New Mexico Asylum for the Deaf & Dumb, Santa Fe, New Mexico.
D. E. Duggan ... Hancock.	'94	M.E.	General Manager of the Cochran Cotton Mill, Cochran, Ga.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
G. F. Forest .... Thomas.	'94	M.E.	Mechanical Engineer and Member of Davis-Forest Machine Works, Savannah, Ga.
E. A. Green ...... Clay.	'94	M.E.	Lieutenant U S. Marine Corps, Mills Building, Washington, D. C.
T. Holmes ...... Wilkes.	'94	M.E.	Southern Representative, Geo. T. Mickle Lumber Co., Chicago, Ill., and Lumber Manufacturers, Tuscaloosa, Ala.
W. W. Hunter .. Wilkes.	'94	M.E.	Mechanical and Civil Engineer, Augusta, Ga.
E. B. Merry .... Columbia.	'94	M.E.	President Merry Machine Works, Memphis, Tenn.
P. Ogletree ...... Meriwether.	'94	M.E.	Peach Growing, Zenith, Ga.
E. R. Whitney .. Richmond.	'94	M.E.	With Commercial Truck Co. of America, Philadelphia, Pa.
S. W. Allen ...... Elbert.	'95	M.E.	Superintendent of the Newnan Water, Sewerage and Light Commission, Newnan, Ga.
J. A. Almond .... Elbert.	'95	M.E.	Deceased.
H. W. Clark .... Richmond.	'95	M.E.	Secretary and Treasurer Winona Cotton Mills, Winona, Miss.
J.M.Goldsmith,Jr. Fulton.	'95	M.E.	Inspector Hartford Steam Boiler & Ins. Inspection Co., Atlanta, Ga.
G. H. Harrison .. DeKalb.	'95	M.E.	Rector Grace Church, Ocala, Fla.
Wm. Jessup ...... Fulton.	'95	M.E.	Manager Estimating & Sales Department, The Geo. B. Sickles Marble Co , Tate, Ga.
J. F. Lovette .... Fulton.	'95	M.E.	With Central of Georgia Railway Co., Atlanta, Ga.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
C. W. McCall .. Chatham.	'95	M.E.	Cashier for Hunter, Pearce & Battey, Cotton and Naval Stores, Savannah, Ga.
W. B. Nunnally.. Fulton.	'95	M.E.	Manager Empire Steam Laundry, Atlanta, Ga.
T. F. Oetjen .... Richmond.		M.E.	Division Engineer for the United Rys. of Havana, Cuba.
J. E. Smith ...... Fulton.	'95	M.E.	Manager John M. Smith Cariage Factory, Atlanta, Ga.
R. N. Towers .... Floyd.	'95	M.E.	President and General Manager Rome Machine & Foundry Co., Rome, Ga.
Geo. Z. Eckels .. DeKalb.	'96	M.E.	Pay Department U. S. Army, Dept. of Gulf, Atlanta, Ga.
J. F. Gibbons ... Bartow.	'96	M.E.	Engineering Department N. P. Pratt Laboratory, Atlanta, Ga.
H. R. Hart ...... Fulton.	'96	M.E.	Deceased.
Chas. W. Hill .... Floyd.	'96	M.E.	Manager C. W. Hill & Co., Engineers and Contractors, Birmingham, Ala.
H. C. Reynolds .. Hancock.	'96	M.E.	Electrician and Engineer South Eastern Tariff Ass., Atlanta, Ga.
Thos.P.Thompson Fulton.	'96	M.E.	Consulting Engineer Neff & Thompson, Architects and Engineers, Norfolk, Va.
R. B. Tufts ...... Glynn.	'96	M.E.	Civil Engineer Fourth National Bank, Atlanta, Ga.
A. B. Whitney ... Richmond.	'96	M.E.	Deceased.
J. T. Wikle ...... Fulton.	'96	M.E.	M. E. Fulton Bag & Cotton Mills, Atlanta, Ga
B. N. Wilson .. Fulton.	'96	M.E.	Professor Mechanical Engineering and Superintendent of Mechanic Arts, Arkansas University, Fayette-

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
Rex VanDen Corput. Dekalb.	'97	M.E.	Captain Coast Artillery Corps, U. S. Army, Recruiting Officer, Syracuse, N. Y.
R. M. Crumley .. Fulton.	'97	M.E.	Member of Firm Beck & Gregg, Atlanta, Ga., Associate Buyer.
F. C. Furlow .... DeKalb.	'97	M.E.	Vice-President Plunger Elevator Co., 17 Battery Place, New York.
E. F. Huff ...... Bibb.	'97	M.E.	Auditor Armour & Co., Chicago, Ill., Headquarters, Atlanta, Ga.
W. D. Nash ...... Fulton.	'97	M.E.	District Engineering and Purchasing Agent Atlanta Division of Southern Cotton Oil Co., Atlanta, Ga.
J. F. Ogletree,Jr. Meriwether.	'97	M.E.	Farming, Odessadale, Ga.
A. L. Reynolds .. Hancock.	'97	M.E.	Agent Georgia Railroad Co., Merchant and Fruit Grower, Mayfield, Ga.
E. L. Wight, Jr. .. Dougherty.	'97	M.E.	Sales Agent Pope-Hartford Motor Co., Atlanta, Ga.
S. A. Bulloch ... Thomas.	'98	E.E.	Secretary & Treasurer Foy Hardware Co., Eufaula, Ala.
J. C. Crawford ... Whitfield.	'98	E.E.	Deceased.
W. B. Everett .. Polk.	'98	E.E.	Sawmilling and Merchandising, President Rockmart Hosiery Mills, Cashier Citizens National Bank, Rockmart, Ga.
J. C. Garlington .. Gordon.	'98	M.E.	Insurance and Real Estate, Calhoun, Ga.
J. O. Hall ...... Warren.	'98	E.E.	Superintendent S. B. T. & T. Co., Atlanta, Ga.
R. H. Hart ...... DeKalb.	'98	E.E.	Draughtsman Western Electric Co., New York, N. Y.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
C. D. Honiker ... Bibb.	'98	E.E.	Assistant Superintendent Fulton Bag and Cotton Mills, Atlanta, Ga.
H. H. Peek ...... Rockdale.	'98	M.E.	Secretary of Lookout Boiler and Manufacturing Co., Chattanooga, Tenn.
B. W. Seawell ... Fulton.	'98	M.E.	Chief Draughtsman The Cincinnati Traction Co., Traction Bldg., Cincinnati, Ohio.
P. G. Wales .... Army.	'98	M.E.	Major Medical Dept., U. S. Army, care Military Secretary, Washington, D. C.
L. R. Camp ..... Coweta.	'99	M.E.	District Engineer Southern Cotton Oil Co. ,Charlotte, N. C.
T. M. Gibbes .... Cobb.	'99	E.E.	Engineer Contract Dept. Minneapolis General Electric Co., Minneapolis, Minn.
J. M. Harby ..... Sumter, S.C.	'99	M.E.	Manager of The Kennedy Building Supply Co., Sumter, S. C.
P. Jackson .. ... Monroe.		M.E.	Chief Engineer, J. S. Scofield's Sons Co., Macon, Ga.
W. Leigh .... Coweta.	'99	M.E.	Structural Engineer for Robins Conveying Belt Co., 87 Madison Ave., New York, N. Y.
J. H. Lowe ...... Fulton.	'99	M.E.	Member of Jno. H. Lowe & Co., Contractors and Builders, Atlanta, Ga.
P. Moses, Jr. .... Sumter, S.C.	'99	M.E.	General Manager and Secretary Clarendon Cotton Oil Mills, President and Treasurer Sumter Insurance Agency, General Agent Penn Mutual Life Insurance Co.
C. D. Terrell	'99	E.E.	Cashier First National Bank, Covington, Ga.
C. M. Binford ... Decatur.	'99	E.E.	Asst. Chief Engineer, Arizona Copper Co. Ltd., Clifton, Ariz.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
F. C. Turner ..... Troup.	'99	M.E.	Assistant Manager Decatur Car Wheel & Manufacturing Co., Birmingham, Ala.
R. J. Binford .... Decatur.	'00	E.E.	Asst. Chief Engineer Arigona Copper Co. Ltd.,, Graham Co., A. T. Was Chief Engineer Arizona & New Mexico Ry.
H. L. Freeman .. Richmond.	'00	E.E.	Testing Dept., Georgia Railway & Electric Co., Atlanta, Ga.
C. S. Jones ...... Chatham.	'00	M.E.	Instructor of Rolling Mill Design & Practice Carnegie Technical School, Pittsburg, Pa.
P. R. Lamar .... Richmond.	'00	M.E.	Secretary and Treasurer, Fidelity Cotton Oil & Fertilizer Co., Moriston, Tenn.
S. L. Rich .... Fulton.	'00	M.E.	Sales Dept. of Southern States Electric Co., Atlanta, Ga., and Birmingham, Ala. (With Receiver of So. States Elect. Co.)
A. Skalowski .... Richmond.	'00	E.E.	Mgr. Santa Monica Bay Home Telephone Co., Santa Monica, Cal.
E. P. Williams... White.	'00	M.E.	Supt. Blast Furnaces Tenn. Coal & Iron Co., Ensley, Ala.
C. S. Wright .... Gordon.	'00	M.E.	Calhoun, Ga.
W. R. Wynne .... Floyd.	'00	E.E.	With A. & B. Construction Co., Atlanta, Ga.
J. P. Benjamin .. Fulton.	'01	M.E.	Inspector and Engineer, Sprinkler Risk Dept. Southeastern Tariff Association, Atlanta, Ga.
E. W. Camp ..... Coweta.	'01	T.E.	Instructor in Carding and Spinnig, Georgia School of Technology, Atlanta, Ga.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
D.O.Dougherty,Jr. Fulton.	'01	E.E.	With Carter & Gillespie Electrical Co., Atlanta, Ga.
Ewell Gay .... Fulton.	'01	M.E.	Asst. Manager So. Dept. Insurance Co. of North America, Philadelphia Underwriters and Alliance Insurance Co., Philadelphia, Atlanta, Ga.
W. J. Holman ... Tennessee.	'01	E.E.	Gen. Manager, Huntington Electric Light & Water-works, Gen. Manager Huntingdon Canning Co., Huntingdon, Tenn., and Business Manager Rhea County Electric Light Co., Dayton, Tenn.
B. W. Holtzclaw Houston.	'01	M.E.	Draughtsman and Assistant Engineer, J. S. Scofield Sons Co., Macon, Ga.
W. D. Hughes ... Wilkinson.	'01	T.E.	Mgr. H. A. Mettz & Co., Aniline Colors & Chem., Empire Bldg., Atlanta, Ga.
W. Langston .... Fulton.	'01	T.E.	With American Car & Foundry Co., Executive Dept., St. Louis, Mo.
A. S. Mead .... DeKalb.	'01	T.E.	Real Estate, Sierra Madra, Cal.
G. J. Merritt ..... Bibb.	'01	M.E.	Erecting Engineer with the Westinghouse Machine Co., Pittsburg, Pa. Permanent Address, No. 8 Bridge Street, New York City; 466 Biddell Avenue, Wilkinsburg, Pa.
J. W. Moore .... Fulton.	'01	M.E.	District Engineer Southern Cotton Oil Co., Montgomery, Ala.
W. Newsom ..... Troup.	'01	M.E.	With Alabama Machinery & Supply Co., Montgomery, Ala.
W. P. Sullivan .. Chatham.	'01	M.E.	General Manager Yolande Coal & Coke Co., New Connelsville Coke & Coal Co., Black Crow Coal Co., Birmingham, Ala.
L. C. Swords .... Morgan.	'01	T.E.	Sec. and Treas. J. B. Swords Supply Co. and Farming, Buckhead, Ga.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
J. F. Towers .... Floyd.	'01	M.E.	Assistant to General Superintendent Tennessee Coal & Iron Co., Steel Works Division, Ensley, Ala.
J. S. Waterman .. Bibb.	'01	M.E.	Mechanical Engineer for Columbus Iron Works Co., Columbus, Ga.
J. H. Williams .. Henry.	'01	M.E.	Board of Water-works Supply of City of New York.
J. T. Anthony ... Chatham.	'02	T.E.	Draughtsman Motive Power Dept., Central of Ga. Ry., Savannah, Ga.
E. H. Bacon .. .. Dodge.	'02	T.E.	Superintendent Aragon Cotton Mills, Aragon, Ga.
M. R. Berry .... Fulton.	'02	M.E.	President and General Manager Southern Brass Works, Atlanta, Ga.
I. Hardeman .... Bibb.	'02	T.E.	Representative of Buffalo Forge Co. and Buffalo Steam Pump Co., Buffalo, N. Y., Charlotte, N. C.
R. L. Hicks .... Bartow.	'02	M.E.	Member Jennings-Gresham Plumbing Co., Atlanta, Ga.
M.T.Hochstrasser Fulton.	'02	M.E.	Prof. Mechanical Engineering and Drawing, University of Florida, Lake City, Fla.
Folger Johnson .. Bibb.	'02	T.E.	Student Architecture, Paris, France.
A. A. Jones ...... Chattooga.	'02	T.E.	With Brock & Spight Co., Decatur, Ala.
C. H. Kicklighter Fulton.	'02	M.E.	Director Mechanical and Electrical Engineering Department, Newberry College, Newberry, S. C.
E. W. Klein .... Fulton.	'02	M.E.	Vice-President Englehart-Hitchcock Heating Co., Atlanta, Ga.
McD. Lawrence .. Cobb.	'02	C.E.	Superintendent of Contsruction for W. R. Bonsal & Co., Hamlet, N. C.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
P. K. McKenney.. Lee.	'02	T.E.	Supt. Mississippi Mills, Wesson, Miss.
R. G. Merry ..... Columbia.	'02	M.E.	Assistant District Engineer, Atlanta, District, Southern Cotton Oil Co., Atlanta, Ga.
A. H. Morton ... Penn.	'02	M.E.	Assistant Engineer L. & N. R. R. Co., Birmingham, Ala.
P. H. Norcross .. Fulton.	'02	T.E.	Solomon-Norcross Co., Consulting Engineers, Atlanta, Ga.
J. H. Paulsen ... Chatham.	'02	M.E.	Engineer Propeller Tow Boat Co., Savannah, Ga.
J. Prioleau ...... Fulton.	'02	T.E.	Special Agent North and South Carolina, for the Continental & Fidelity Fire Insurance Co. of New York, Charlotte, N. C.
C. W. Rainey ... Cobb.	'02	T.E.	Mechanical Inspector for Hanson Blake & Co., Candler Building, Atlanta, Ga.
M. G. Smith .... Fulton.	'02	M.E.	Mechanical Engineer for J. E. Sirrine, Mill Architect and Engineer, Greenville, S. C.
H. L. Strickland.. Gwinnett.	'02	M.E.	Representing The Mirrlees Watson Co. Ltd., Glascow, Scotland, Headquarters Lima, Peru, South America.
T. M. Thompson. Jasper.	'02	M.E.	With Engineering Department Van Winkle Gin and Machine Works, Atlanta, Ga.
D. D. Towers .... Cobb.	'02	T.E.	Supt. Bibb Mfg. Co., Porterdale, Ga.
J. G. West, Jr. .. Fulton	'02	T.E.	With Carnegie Steel Co., Edgar Thomson Works, Braddock, Pa.
H. B. Wey ...... Fulton.	'02	M.E.	Railway Mail Service.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
L. G. Yankey .... Dougherty.	'02	T.E.	Assistant Superintendent, Savannah Refinery, Southern Cotton Oil Co., Savannah, Ga.
H. W. Atkinson .. Fulton.	'03	T.E.	Superintendent Gray Cloth Department Eddystone Manufacturing Co., Chester, Pa.
H. O. Ball ...... Butts.	'03	T.E.	With Pepperton Cotton Mills, Jackson, Ga.
F. G. Bell, Jr. .... Chatham.	'03	T.E.	Overseer Spinning, Rhode Island Mills, Spray, N. C.
P. E. Cannon .... Franklin.	'03	T.E.	Naval Stores, Canal Station, Ala.
B. W. Cochran .. Campbell.	'03	E.E.	With Engineering Dept., Southern Bell Telephone & Telegraph Co., Norfolk, Va., Permanent Address, Atlanta, Ga.
J. C. Cook ...... Chattahoochee.	'03	E.E.	Designing Engineer in Charge of Surveys, Etc., with J. B. McCrary & Co., Atlanta, Ga.
A. O. Dayton .... Florida.	'03	E.E.	Electrical Engineer, Tampa Electric Co., Tampa, Fla.
H. O. Evans .... Texas.	'03	T.E.	Engineer, Atlanta, Ga.
W.M.Fambrough Thomas.	'03	E.E.	Secretary and Treasurer J. B. McCrary, Municipal Improvements, Atlanta, Ga., President Boston, Ga., Home Telephone Co. (Inc), Boston, Ga.
M. L. Freeman.. Richmond.	'03	T.E.	Assistant Professor of Drawing, Agricultural and Mechanical College of Mississippi.
Felder Furlow .. Fulton.	'03	T.E.	Division Engineer, Sao Paulo & Rio Grande Ry., Ponta Grassa, Brazil, S. A.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
G. W. Hamilton.. Whitfield.	'03	T.E.	Superintendent Crown Cotton Mills, Dalton, Ga.
J. D. Hodnett .. Massachusetts.	'03	T.E.	Constructing Engineer for Water Works System, Gulfport, Miss.
A. R. Howard ... DeKalb.	'03	T.E.	Designer Gibson Manufacturing Co., Concord, N. C.
C. J. Kamper, Jr. Fulton.	'03	C.E.	Resident Engineer for Arthur Pew, Atlanta, Ga.
A. D. Kennedy .. S. C.	'03	E.E.	Assistant District Engineer, Southern Cotton Oil Co., Atlanta District, Atlanta, Ga.
J. A. Kinnard . .. S. C.	'03	M.E.	Draughtsman, Tennessee Coal, Iron & Railway Co., Ensley, Ala.
R. H. Lowndes... S. C.	'03	M.E.	Junior Professor Mechanical Drawing School of Technology, Atlanta, Ga.
B. F. Markert .... Pulaski.	'03	M.E.	With Gude & Walker, Engineers, Atlanta, Ga.
E. C. Patterson .. Fulton.	'03	M.E.	Chief Engineer for Walsh & Weidener, Boilermakers, Chattanooga, Tenn.
P. M. Peteet .... Morgan.	'03	T.E.	Manager, Lumber & Naval Stores Co., Oak Hill, Fla.
W. S. Rankin .... Chatham.	'03	M.E.	Assistant Inspector for Virginia-Carolina Chemical Co. and Southern Cotton Oil Co., Savannah, Ga.
J. E. Roberts .... Tennessee.	'03	T.E.	Sec.-Treas. Roberts Cotton Oil Co., Memphis, Tenn.
E. A. J. Seddon.. Fulton.	'03	E.E.	With South Western Telephone & Telegraph Co., El Paso, Tex.
F. W. Shackleford Muscogee.	'03	E.E.	Transformer Commercial Dept., General Electric Co., Schenectady, N. Y.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
L. M. Solomon .. Bibb.	'03	T.E.	Poultry Breeder, Macon, Ga.
S. L. Snowden ... Bibb.	'03	M.E.	Real Estate, New York City, etc.
F. C. Swain ...... Gordon.	'03	T.E.	Textile Engineer, Station, Ga.
J. G. Swanson .. Alabama.	'03	T.E.	Cotton Buyer, Tuskegee, Ala.
J. L. Thrash ...... Meriwether.	'03	E.E.	Manager Ocilla Telephone Co., Ocilla, Ga.
R. B. VanWormer Fulton.	'03	M.E.	Motive Power Department Atlantic Coast Line Ry. Co., Wilmington, N. C.
C. F. Wagner ... Butts.	'03	M.E.	With J. B. McCrary & Co., Atlanta, Ga.
J. A. Whitner, Jr. Fulton.	'03	M.E.	Agent Liverpool, London & Globe Insurance Co., Jacksonville, Fla.
A. C. Wilson .... Fulton.	'03	E.E.	With Georgia Railway & Electric Co., Engineering Department, Atlanta, Ga.
Paul Wright .... Spalding.	'03	M.E.	Structural Draughtsman Tennessee Coal, Iron & Railroad Co., Ensley, Ala.
C. L. Ruse ...... Fulton.	'03	M.E.	Special Agent, Royal Insurance Co., Atlanta, Ga.
Guy Garrard .. . Muscogee.	'03	T.E.	Inspector for Southern States for American Moistening Co., of Boston, Mass., Charlotte, N. C.
W. H. Acker .... Fulton.	'04	E.E.	Electrical Engineer, Transmission Dept., West Penn. Railway Co., Connellsville, Pa.
U. E. Albury .... Florida.	'04	E.E.	Electrical Engineer Transmission Dept., West Penn. Railways Co., Connellsville, Pa.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
B. M. Blackburn Fulton.	'04	M.E.	Chief Draughtsman R. D. Cole Manufacturing Co., Newnan, Ga.
W. W. Brandon .. Thomas.	'04	M.E.	With Westinghouse Electrical Manufacturing Co., Pittsburg, Pa.
W. C. Campbell .. Muscogee.	'04	E.E.	Superintendent Public Works, Columbus, Ga.
W. M. Davis ..... Bibb.	'04	T.E.	Merchandising, Elks, Ga., R. F. D.
F. B. Davenport.. Fulton.	'04	E.E.	Adjunct Prof. Electrical and Experimental Engineering, Ga. School of Technology, Atlanta, Ga.
Z. T. Dobbs .... Fulton.	'04	T.E.	Barber & Coleman Co., Rockford, Ill. (394 N. Boulevard, Atlanta, Ga.)
C. H. Edmondson Chattooga.	'04	T.E.	Superintendent and General Manager Floyd Cotton Mills, Rome, Ga.
A. R. Emery .... Fulton.	'04	E.E.	Second Lieutenant 27th U. S. Infantry. Care War Dept., Washington, D. C.
J. W. Estes ..... Clayton.	'04	E.E.	Res. Manager Estes Mfg. Co., Rex, Ga.
S. D. Furlow .... Sumter.	'04	T.E.	With Bibb Manufacturing Co., Macon, Ga.
G. R. Glenn ...... Fulton.	'04	E.C.	Inspector Southeastern Tariff Association, Atlanta, Ga.
J. A. Hall, Jr. .... DeKalb.	'04	E.C.	Chemist New York Sugar Trade Lab., 80 South St., New York, N. Y.
G. A. Harbour .. Fulton.	'04	T.E.	With W. R. Jester, Contractor, Norfolk, Va.
C. M. Hilliard .... Hart.	'04	C.E.	Chemist and Oil Refiner with the Oconee Oil Refining Co., Athens, Ga.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
R. C. Holtzclaw.. Houston.	'04	E.C.	Asst. State Chemist, Atlanta, Ga.
L. Hunnicutt .... Fulton.	'04 '05	M.E. E.E.	Inspector Southeastern Tariff Association, Atlanta, Ga.
C. A. Jones ...... Cobb.	04	T.E.	In charge of Bleaching and Dyeing Department Georgia School of Technology, Atlanta, Ga.
R. K. Jordan .... Jackson.	'04	T.E.	Engineering Dept. Southern Southern Bell Telephone & Telegraph Co., Atlanta, Ga.
F. R. Maddox ... Floyd.	04	E.C.	Chemist, Blast Furnace, Va., Address: Rome, Ga.
C. W. Matthews.. Talbot.	'04	T.E.	With Spalding Cotton Mills, Griffin, Ga.
S. B. Mathewson. Richmond.	'04	T.E.	Machine Erector with Barber & Colman, Rockford, Ill.
C. C. McCamy .. Whitfield.	'04	M.E.	Poultry Farming, Dalton, Ga.
A.R.Monsalvatge. Fulton.	'04	E.E.	Asst. District Engineer, Southern Cotton Oil Co., Augusta, Ga.
B. Moore .... Clayton.	'04	E.E.	South Western Mgr. Crocker Wheeler Electric Co., Dallas, Tex.
J. E. Moore ..... Sumter.	'04	T.E.	With Barber-Colman Co., of London, Eng., Rockford, Ill.
F. H. Neely ..... Burke.	'04	M.E.	With Westinghouse Electric Manufacturing Co., Pittsburg, Pa.
D. R. Pringle .... Thomas.	'04	E.E.	Supt. Electrical Appliances, City of Thomasville Electric Light Plant, Thomasville, Ga.
I. H. Reid ...... Taliaferro.	'04	E.E.	With Continental Gin Co., Atlanta, Ga.
M. T. Sanders ... Greene.	'04	T.E.	Traveling for Richmond Hosiery Mills, Chattanooga, Tenn.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
H. J. Scales .... Fulton.	'04 '05	E.E. M.E.	Assistant Engineer Long Sault Development Co and St. Lawrence Power Co. Ltd., of Montreal, Que., Marsena, N. Y.
H. M. Strauss	'04	E.E.	Asst. Supervisor of Traffic, 7th District American Telephone & Telegraph Co., Atlanta, Ga.
T. E. Stribling .. Cobb.	'04	T.E.	Resident Supt. Habersham Mills, Habersham, Ga.
N. H. Strickland.. Gwinnett.	'04	E.E.	With Gray National Telautograph Co., 80 Broadway, New York.
Strong, C. H.	'04	M.E.	Engineer with Ga. Ry. & Electric Co., Atlanta, Ga.
S. Sutker .... Chatham.	'04	E.C.	Chief Chemist Central Iron & Coal Co., Holt, Ala., Central Foundry Co., Vincennes, Ind., Bessemer, Ala., etc.
J. H. Vaughan ... Fulton.	'04	E.E.	Engineer Street Ry. Co., Knoxville, Tenn.
H. F. Whitner....		C.E.	Farming, Porter Springs, Ga.
S. H. Wilson .... Campbell.	'04	E.C.	Asst. State Chemist, Atlanta, Ga.
A. H. Wright .... Gordon.	'04	M.E.	Stock Raising, R. F. D. No. 4.
C. C. Huff .. ... Fulton.	'04	M.E.	With San Pedro, Los Angeles & Salt Lake Ry. Co., Los Angeles, Cal.
E. B. Basch ...... Chatham.	'05	T.E.	With Central of Georgia Railway, Savannah, Ga.
J. S. Brogdon ... Gwinnett.	'05	E.C.	Chemist, A. D. Adair & McCarty Bros., Chattanooga, Tenn.
W. C. Burns .... Banks.	'05	T.E.	Superintendent Rushton Cotton Mills, Griffin, Ga.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
E. H. Bussey .... Randolph.	'05	T.E.	Telephone Sales Mgr., Western Electric Co., Atlanta, Ga.
L. S. Collier ..... Fulton.	'05	M.E.	Traffic Manager, American Telephone Co., Louisville, Ky.
J. D. Collins, Jr. Fulton.	'05	M.E.	J. D. Collins & Son, Concrete Supplies, Gould Bldg., Atlanta, Ga.
L. C. Daniels .... Fulton.	'05	E.C.	Graduate Student, Univ. Penn., Philadelphia, Pa.
H. E. Eagan .... Fulton.	'05	M.E.	With Armstrong Cork Co., Insulation Dept., 244 Main St., Cincinnati, O.
R. Gregg .... Fulton.	'05	M.E.	Chief Clerk Atlanta Steel Hoop Co., Atlanta, Ga.
W. B. Hodgson .. Clarke.	'05	M.E.	With Empire State Chemical Co., Athens, Ga.
J. W. Houseal .. Polk.	'05	C.E.	Resident Engineer Va. Air Line Ry., Bruno Bluff, Va.
J. H. Howard ... Florida.	'05	M.E.	Treasurer and General Manager Howard Steamboat Co., Grahamville, Fla.
F. A. Kroner ..... Clarke.	'05	E.E.	With General Electric Co., Asst. Eng. Research Lab., Lynn, Mass.
Thos. A. Lambert Fulton.	'05	E.E.	With Geo. B. Sickles Marble Co., Tate, Ga.
J. C. Loyd ...... Troup.	'05	M.E.	Foreman Linter-Room Refuge Cotton Oil Co., Columbus, Miss.
W.F.Montgomery Floyd.	'05	C.E.	Mining Engineer, New Etna Coal Co., Whiteside, Tenn.
F. C. Morton .... Fulton.	'05	E.E.	With Crocker Wheeler Co., Contract Dept., Ampere, N. J.
T. W. Morton ... Clarke.	'05	E.E.	With General Electric Co., Schenectady, N. Y.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
J. H. McConnell.. Bartow.	'05	E.E.	With U. S. Reclamation Service, Mesa, Arizona.
E. P. McGhee ... Floyd.	'05	M.E.	Georgia Engineering & Construction Co., Rome, Ga.
W. A. Pringle, Jr. Thomas.	'05	C.E.	Engineer Corps, Tampa Northern Ry., Brooksville, Fla.
S. K. Smith .. .. Turner.	'05	E.E.	With General Electric Co., Schenectady, N. Y.
J. R. Spence .... Mitchell.	'05	E.E.	With Camilla Light and Water Department, Camilla, Ga.
T. D. Stanton .... Irwin.	'05	T.E.	With Social Circle Cotton Mills, Social Circle, Ga.
P. V. Stephens .. Florida.	'05	E.E.	Electrical Draftsman, Equip. Dept. U. S. Navy, Brooklyn, N. Y.
C. S. Tatum .... Dade.	'05	T.E.	Instructor Weaving and Dyeing, Texas Textile School of Agri. and Med. Coll. of Texas, College Station, Texas.
P. W. Thompson.. Fulton.	'05	M.E.	Draughtsman Blue Ridge Marble Co., Nelson, Ga.
J. E. Weeks ..... Chatham.	'05	E.E.	Undertaker, Savannah, Ga.
R. A. Anderson... Cobb.	'06	M.E.	With Westinghouse Electric & Mfg. Co., Pittsburg, Pa.
W. C. Appleby ... Jackson.	'06	M.E.	Mechanical Engineer, Decatur Car Wheel and Mfg. Co., Birmingham, Ala.
W. N. Bagwell... Gwinnett.	'06	T.E.	Instructor Textile Department, Georgia School of Technology, Atlanta, Ga.
J. S. Beane ..... Habersham.		E.E.	With Southern Bell Telephone & Telegraph Co., Atlanta, Ga.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
L. H. Beck, Jr.... Spalding.	'06	T.E.	Superintendent Spalding Cotton Mills, Griffin, Ga.
E. B. Broomhead. Futlon.	'06	C.E.	Civil Engineer, Atlanta, Ga.
J. Z. Collier ...... Fulton.	'06	M.E.	With Atlanta Steel Hoop Co., Atlanta, Ga.
P. H. Connally .. Paulding.	'06	E.E.	Supt. Electric Light & Water Works, Nashville, Ga.
G. Davis .... Newton.	'06	M.E.	Farming, Porterdale, Ga.
C. C. Day .... Pickens.	'06	M.E.	With L. & N. Ry. Co.
C. Donaldson .... Fulton.	'06	E.E.	With Southern Bell Telephone & Telegraph Co., Atlanta, Ga.
W. C. Dumas .... Hancock.	'06	C.E.	Chemist, with N. P. Pratt Laboratory, Atlanta, Ga.
F. J. Fagan ...... Fulton.	'06	C.E.	Resident Engineer, Atlanta Office, Roanoke Bridge Co., Roanoke, Va., Atlanta, Ga.
E. Fowler .... Spalding.	'06	M.E.	Steam Engineer, Carnegie Steel Co., Clanton, Penn.
M. T. Glenn ...... Rockdale.	'06	M.E.	Instructor in Drawing (Technical School), Cincinnati, Ohio.
H. G. Greene .... Fulton.	'06	M.E.	Inspector, Southern Bell Telephone & Telegraph Co., Shops, Atlanta, Ga.
V. P. Holt .... Gilmer.	'06	E.E.	With Southern Bell Telephone & Telegraph Co., Atlanta, Ga.
C. A. Hoyt ...... Florida.	'06	E.E.	With National Transportation and Terminal Co., Jacksonville, Fla.
R. A. Hunt ...... Polk.	'06	M.E.	Supervising Farmer, Cedartown, Ga.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree in B. S.	Occupation
J. P. Ingle ...... Fulton.	'06	C.E.	Assistant Superintendent Gas Light Company of Columbus, Columbus, Ga.
G. O. Lowe ...... Fulton.		M.E.	With E. E. Lowe Co., Manufacturers & Wholesale Lumber, Coal, etc., Atlanta, Ga.
I. N. Lozier ..... Washington	'06	E.E.	With Allis-Chalmers Co. Student Course, Cincinnati, Ohio.
M. R. Maclean ... Chatham.	'06	M.E.	American Steel Foundries, Chester, Pa.
D. S. Marshall .. Putnam.	'06	E.E.	With Allis-Chalmers Co. Student Course, Cincinnati, Ohio.
S. W. Mays ...... Fulton.	'06	M.E.	Assistant Engineer Muscle Shoals Hydro-Electric Power Co., Nashville, Tenn.
A. W. Meckel .... Fulton.	'06	E.E.	With Home Telephone & Telegraph Co., San Diego, Cal.
C. M. McCord .... Fulton.	'06	E.E.	Superintendent, Municipal Electric Light & Water Works, Senatobia, Miss.
E. P. Noyes ...... Camden.	'06	E.E.	With Westinghouse Electric & Mfg. Co., Pittsburg, Pa.
S. M. Orr, Jr. .... Fulton.	'06	E.E.	Superintendent Savannah River Power Co., Anderson, S. C.
J. C. Platt, Jr. .... Richmond.	'06	T.E.	With Jno. P. King Mills, Augusta, Ga.
E. E. G. Roberts DeKelb.	'06	E.E.	With Westinghouse Electric Mfg. Co., Pittsburg, Pa.
S. N. Roberts .... DeKalb.	'06 '06	E.E.	With Westinghouse Electric & Manufacturing Co., Pittsburg, Pa.
F. M. Rowan .... Bartow.	'06	T.E.	Prof. Mathematics and Mechanics First District, Agricultural College, Statesboro, Ga.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Oceupat on
H. H. Sims ...... Wilkes.	'06	C.E.	Construction Engineer, Southern Cotton Oil Co., Atlanta, Ga.
Chas. H. Smith.. Bibb.	'06	E.C.	Steel Plant Testing Laboratory, T. C. I. & R. R. Co., Ensley, Ala.
C. H. Tigner Meriwether	'06	M.E.	With Allis-Chalmers Co., Student Courst, Milwaukee, Wis.
F. J. Walden .... Jefferson.	'06	M.E.	Installing Engineer with Bruce-Meriam-Abbott Co., Gas Engine Builder, Cleveland, O.
W. Warfield ...... Chatham.	'06	E.E.	Tampa Electric Co., Tampa, Fla.
A. Wells .... Fulton.	'06	E.E.	With Southern Bell Telephone & Telegraph Co., Atlanta, Ga.
T. L. Wolf ...... Laurens.	'06	C.E.	With J. B. McCrary & Co., Atlanta, Ga.
R. M. Angas .... Florida.	'07	M.E.	With Phillips & Turnbull, Engineers and Contractors, Atlanta, Ga.
J. A. Apple ...... Chatham.	'07	E.E.	Savannah, Ga.
B. S. Brown ..... Pulaski.	'07	E.C.	With Arthur Hardware Co., St. Matthews, S. C.
C. Corley .... Bartow.	'07	T.E.	Supt. Tennille Yarn Mills, Tennille, Ga.
H. M. Corse .... Florida.	'07	E.E.	Purchasing Agent, Columbus R. R. Co., Columbus, Ga.
W. H. Cowan .... Newton.	'07	E.E.	Prof. Mechanic Arts, 5th District Agricultural College, Monroe, Ga.
F. C. Davies .... Fulton.	'07	M.E.	With Illinois Steel Co., 351 91st St., Chicago, Ill.
W. E. DuPree .. Fulton.	'07	E.E.	With DuPree Mfg. Co., Atlanta, Ga.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
L. A. Emerson .. S. C.	'07	C.E.	Civil Engineer, Summerville, S. C.
G. Haines ...... Chatham.	'07 '07	M.E.	Savannah, Ga.
G. O. Hodgson Florida.	'07	E.E.	Testing Dept., General Electric Co., Schenectady, N. Y.
J. G. Holtzclaw .. Houston.	'07	E.E.	With Savannah Electric Co., Savannah, Ga.
L. R. Jackson .... Monroe.	'07	M.E.	Adjt. Professor of Mechanical Drawing, Georgia School of Technology, Atlanta, Ga.
W. H. Johnson .. Chattahoochee	'07	M.E.	Farming, Box Springs, Ga.
E. R. Kenner .... Murray.	'07	M.E.	With D. G. Zergler & Co., Consulting Archi. & Constr. Engs., Atlanta, Ga., and Columbia, S. C.
A. C. Knight .... Bartow.	'07	C.E.	Resident Engineer, with J. N. Hazlehurst, Consulting Engineer, on Municipal Improvements, Rome, Ga.
H. H. Leech .... Fulton.	'07	M.E.	With American Telephone & Telegraph Co., Bay St., St. Louis, Mo.
B. T. Longino .. Campbell.	'07	E.E.	With Stone & Webster Management Association, 147 Milk St., Boston, Mass.
O. H. Longino .. Fulton.	'07	E.E.	With American Telephone & Telegraph Co., Atlanta, Ga.
L. B. Mann. ..... Telfair.	'07	C.E.	With Nolte Construction Co., Cincincinati, O.
G. T. Marchmont Fulton.	'07	E.E.	With S. A. Ryan & Co., Atlanta, Ga.
E. F. Murray .... Muscogee.	'07	M.E.	Draughtsman, F. H. Lummus Sons Co., Gin Mfgrs., Columbus, Ga.

REGISTER OF GRADUATES—Continued.

Name, and County from which appointed	Class	Degree B. S. in	Occupation
J. W. McLarty ... Carroll.	'07	E.E.	Cadet Engineer, Denver Gas and Electric Co., Denver, Col.
E. L. Peirce ...... Florida.	'07	E.E.	
C. W. Pittard..... Clarke.	'07	E.E.	Denver Gas & Electric Co. (School of Gas and Electric Practice), Denver, Col.
T. E. Raht ...... Fulton.	'07	T.E.	Director Textile Dept., Secondary Industrial School, Columbus, Ga.
R. A. Riley ...... Fulton.	'07	E.E.	Testing Dept., General Electric Co., Schenectady, N. Y.
J. E. Sims ...... DeKalb.	'07	E.E.	General Electric Co., Schenectady, N. Y.
A. H. Sparks .... Washington	'07	E.E.	With Allis-Chalmers Co., Cincinnati, Ohio.
G. M. Stout ...... Fulton.	'07	E.E.	With Westinghouse Elec. & Mfg. Co., Pittsburg, Pa.
J. M. Tranpell.... Bulloch.	'07	M.E.	
A.F.L.Willatowski Fulton.	'07	E.E.	Testing Dept. of General Electric Co., Schenectady, N. Y.
W. E. Wood..... S. C.	'07	E.E.	With Jacksonville Electric Ry. Co., Jacksonville, Fla.

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